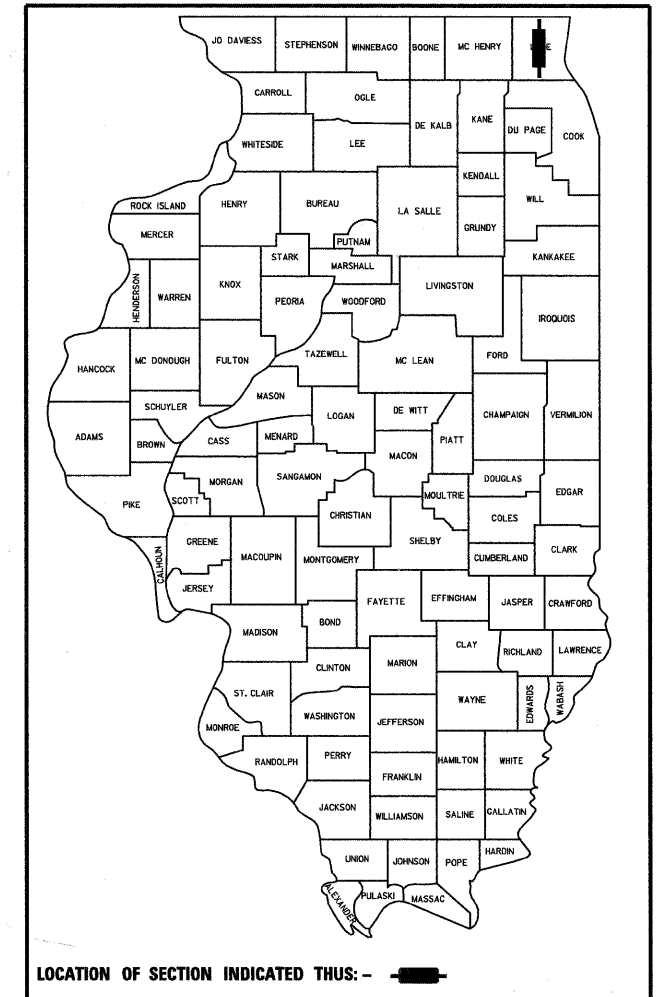


PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**FAU ROUTE 2605 (MIDLOTHIAN ROAD)
SECTION 09-00171-13-BT
PROJECT CMM-9003(558)
PRAIRIE CROSSING BIKE PATH
LAKE COUNTY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	09-00171-13-BT	LAKE	59	1
		ILLINOIS	CONTRACT NO. 63619	



INDEX OF SHEETS

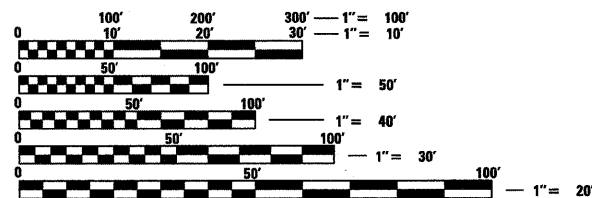
- 1 COVER SHEET
- 2 GENERAL NOTES & CONTACT INFORMATION
- 3 SUMMARY OF QUANTITIES
- 4-6 SCHEDULE OF QUANTITIES
- 7 TYPICAL SECTIONS
- 8-9 HORIZONTAL ALIGNMENT
- 10-12 EROSION CONTROL PLAN
- 13 PEDESTRIAN BYPASS PLAN
- 14-25 PLAN AND PROFILE
- 26-47 CROSS SECTIONS
- 48 CURB RAMP DETAILS
- 49 CONCRETE STEPS DETAIL
- 50-58 LCDOT STANDARD DETAILS
- 59 VILLAGE OF MUNDELEIN DETAILS

LIST OF HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-06 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424011 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542311-03 GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600 mm) THRU 54" (1350 mm) PIPE)
- 602011-02 CATCH BASIN TYPE C
- 602401-03 MANHOLE TYPE A
- 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 604001-03 FRAME AND LIDS TYPE I
- 604036-02 GRATE TYPE 8
- 604091-02 FRAME AND GRATE TYPE 24
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES
- 720006-03 SIGN PANEL ERECTION DETAILS
- 814001-02 HANDHOLES

LAKE COUNTY STANDARDS IN PLAN SET

- LC0020 TRENCH WIDTHS FOR TRENCH BACKFILL & PAVEMENT REPLACEMENT, BITUMINOUS UNDERCUT DETAIL
- LC2000 TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH
- LC2050 CURB & GUTTER SUBGRADE OPTIONS
- LC3000 CONCRETE WASHOUT FACILITIES
- LC4202 TRANSITION FROM AGGREGATE SHOULDER TO B-6.24 FOR 16' OFFSET TO FACE
- LC4800 TYPICAL PLACEMENT OF PRECAST END SECTIONS ON CROSS ROAD CULVERTS
- LC5401 JOINT TIES FOR CONCRETE PIPE
- LC5402 RESTRICTED DEPTH MANHOLE
- LC6000 INLET SPECIAL, STANDARD 542546, DOUBLE (FLAT GRATES)
- LC6001 SUB-SURFACE DRAINS
- LC6020 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
- LC7800



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

TOWNSHIP(S): FREMONT

CONTRACT NO. 63619

C-91-325-10
R 10 E R 11 E

**END IMPROVEMENT
STA 112 + 96.71**

**END OMISSION
STA 95 + 90.00**

**BEGIN OMISSION
STA 78 + 78.44**

**END OMISSION
STA 70 + 09.05**

**BEGIN OMISSION
STA 66 + 22.36**

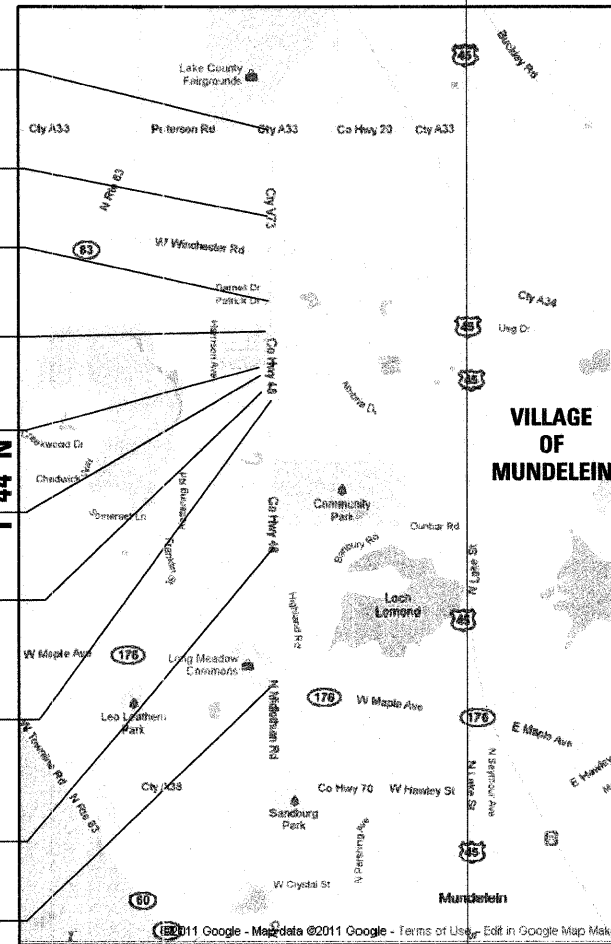
**END OMISSION
STA 64 + 42.45**

**BEGIN OMISSION
STA 60 + 28.59 (MIDLOTHIAN RD)
STA 303 + 33.47 (SHEFIELD AVE)**

**END OMISSION
STA 58 + 36.23 (MIDLOTHIAN RD)
STA 300 + 53.80 (SHEFIELD AVE)**

**BEGIN OMISSION
STA 26 + 48.04**

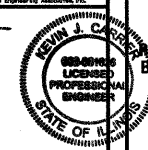
**BEGIN IMPROVEMENT
STA 0 + 56.59**



LOCATION MAP NOT TO SCALE

FUNCTIONAL CLASSIFICATION = ARTERIAL
2008 ADT = 7100 (PETERSON RD - WINCHESTER RD)
2008 ADT = 10970 (WINCHESTER RD - IL ROUTE 176)
POSTED SPEED = 45 MPH (PETERSON RD - WINCHESTER RD)
POSTED SPEED = 40 MPH (WINCHESTER RD - TIMBER PASS)
POSTED SPEED = 35 MPH (TIMBER PASS - IL ROUTE 176)

PLANS PREPARED BY: **McClure**
 SIGNATURE: *[Signature]*
 DATE: 1/19/2012
 ILLINOIS LICENSE NO.: 062-061626
 FIELD: CIVIL



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: 1/14/2012
[Signature]
LAKE COUNTY DIVISION OF TRANSPORTATION, COUNTY ENGINEER

PASSED: JANUARY 5, 2012
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW: JANUARY 6, 2012
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GROSS LENGTH = 11,175 FT. = 2.12 MILES
NET LENGTH = 6,268 FT. = 1.19 MILES

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

GENERAL NOTES

1. All construction shall be done in accordance with the State of Illinois 'Standard Specifications for Road and Bridge Construction' adopted Jan. 1, 2012, the 'Supplemental Specifications and Recurring Special Provisions, adopted Jan. 1, 2012' the details in these plans, and the Special Provisions included in the contract documents.

2. Where section or subsection monuments are encountered, the Engineer shall be notified before the monuments are removed. The Contractor shall carefully preserve all property marks and monuments until the owner, authorized surveyor or agent has witnessed or otherwise referenced their location.

3. SIGNS: The Contractor shall be required to relocate and/or remove and replace signs which interfere with his/her construction operations, and to temporarily reset all such signs during construction operations. This work will be considered as included in the pay item TRAFFIC CONTROL AND PROTECTION (SPECIAL). All work involving signs shall be according to the following requirements:

- a. Signs shall not be moved until progress of work necessitates it.
- b. Every sign removed shall be re-erected at a temporary location in a workmanlike manner and be visible to traffic for which it is intended. All such signs shall be maintained straight and clean for the duration of the temporary setting.
- c. All signs shall be re-erected in permanent locations as the roadway is completed. Horizontal location from the edge of pavement shall be as designated by the Engineer.
- d. All unused signs shall be returned to the County.
- e. Longer posts may be required at some temporary or permanent sign locations to maintain proper sign elevations.

4. EARTH EXCAVATION

- a) The removal of existing bituminous pavement and aggregate base course, unless included in other pay items, shall be considered as EARTH EXCAVATION.
- b) Excavation for topsoil placement shall be considered EARTH EXCAVATION.
- c) Excavation required to clean side road ditches, construct driveways or construct side road approaches shall be included in the cost of EARTH EXCAVATION.
- d) All suitable excess material from sewer trenches, side roads, entrances or other necessary excavations shall be used in the construction of the roadway. Placement and compaction of this material shall be included in the cost of EARTH EXCAVATION and no additional compensation will be allowed.
- e) Removal and disposal of unstable, unsuitable and/or excess material will not be paid for separately, but is included in the contract unit price for EARTH EXCAVATION. All unstable, unsuitable and/or excess material shall be disposed of outside the right-of-way according to Article 202.03 of the 'Standard Specifications'.

5. DRAINAGE

- a) The cost of connecting existing storm sewers to the proposed drainage system and connecting proposed storm sewer to existing structures shall be considered included in the unit price of the proposed drainage structure and/or the cost of the proposed storm sewer. Any additional pipe required for the connection will be paid for at the contract unit price for 'STORM SEWER' of the size required.
- b) CONSTRUCTION OPERATIONS: During construction operations the Contractor shall ensure positive site drainage at the conclusion of each day. Site drainage may be achieved by ditching, pumping, or any other method acceptable to the Engineer. During construction operations when any loose material is deposited in the flow line of ditches, gutters or drainage structures so the natural flow of water is obstructed, the material shall be removed at the close of each working day. At the conclusion of construction operations all drainage structures shall be free from silt and debris. This work will not be paid for separately but shall be considered included in the cost of the project.
- c) Frame elevations given on the plans are only to assist the Contractor in determining the approximate overall height of the structure. Frames on all new structures will be adjusted to the final elevation of the area in which they are located as part of the structure cost.
- d) Unless otherwise noted, locations shown on the plans are to the edge of pavement for structures in the curb and to the center of the structure for all other structures. Flat tops and cones are to be turned so that the frame is closest to the center line of the road, unless otherwise noted on the structure in the plans. All flat tops and cones are assumed to be eccentric.
- e) Bituminous or concrete pavement crossings shall not be left in gravel overnight. This will include the main road, side streets, private entrances, commercial entrances and parking areas. Temporary bituminous patching at the Contractor's expense may be used in lieu of immediate pavement replacement.
- f) At locations where the proposed storm sewer crosses over utilities, a 4' Styrofoam cushion shall be placed under the storm sewer when directed to do so by the Engineer. The cost will not be paid for separately, but shall be considered as included in the unit prices of the proposed storm sewer, and no additional compensation will be allowed.

6. DRIVEWAYS OR ENTRANCES

- a) Existing bituminous, concrete, and gravel driveways and entrances shall be surfaced to 1 foot inside the right-of-way with bituminous concrete surface course as scheduled in the plans.
 - b) Existing field entrances shall be built up in place to the right-of-way with aggregate base course.
 - c) The Contractor shall construct all commercial and private driveways in accordance with the plans and/or as directed by the Engineer.
7. All elevations shown on these plans are on NGVD 1929 Datum.
8. Any reference to standards in the plans or special provisions shall be interpreted to be latest standards of the Department.
9. The Contractor's attention is called to the fact that some quantities are given in both summary form and on the plan sheets. Care should be taken to avoid duplication of quantities.

10. Tie bars shall be installed between concrete curb and gutters and pcc pavement base course in accordance with IDOT Standard 60600-04 except that tie bars shall be 24" long epoxy coated #6 tie bars, 24" on centers. This work shall be included in the price for COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24.

11. Contractor shall perform a proof roll of the sub-grade in the presence of the Engineer to determine if any undercutting is required. The proof roll shall be performed with a loaded skid steer, truck, or equal with a loaded weight of 15,000 lbs. The Engineer shall inspect all areas in which deflection, rutting, pumping, etc. in excess of 1" occurs to determine if undercutting will be required. Areas determined by the Engineer to require undercutting shall be undercut as follows:
 a) Removal of unsuitable material to a depth of 6" below the bike path sub-grade elevation. This will be paid for as EARTH EXCAVATION.
 b) Placement of GEOTECHNICAL FABRIC FOR GROUND STABILIZATION on the bottom and up all four sides of the undercut area.
 c) The undercut area shall be backfilled with AGGREGATE BASE COURSE TYPE B, 6'.

12. Sanitary manholes to be adjusted/reconstructed shall be in accordance with the Village of Mundelein "SANITARY SEWER INTERNAL CHIMNEY SEAL DETAIL" located in these plans and the special provision for MANHOLES TO BE ADJUSTED WITH NEW TYPE I FRAME AND CLOSED LID and MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE I FRAME AND CLOSED LID.

13. Fire hydrants to be moved shall be done so in accordance with the Village of Mundelein "TYPICAL FIRE HYDRANT" detail included in these plans. The existing fire hydrant lead to be abandoned shall be capped at the main. This work shall be included in the price for FIRE HYDRANTS TO BE MOVED.

14. Phosphorus Fertilizer Nutrient will not be used on this Project.

15. Cut trees and limbs shall be disposed of within 5 working days. The cut trees and limbs shall be disposed of according to Article 202.03 of the 'Standard Specifications'. The price for this work shall be included in the price for TREE REMOVAL (6 TO 15 UNITS DIAMETER).

16. PERIMETER EROSION BARRIER shall be limited to rolled excelsior. Rolled excelsior shall consist of a Polypropylene Multi-filament woven netting sealed with metal clips or knotted at the ends. The filler material shall be 70% bark-free hardwood mulch ground of 1.5" and 30% bark-free hardwood mulch ground fine. The density shall be a minimum of 3.3 lbs per cubic ft. based on a moisture content of 18% at manufacturing. The netting material shall retain 89.5% of its strength after 500 hours of exposure to sunlight. The maximum opening in the netting shall not exceed 1/16" in a tubular knit design.

17. AGGREGATE BASE COURSE TYPE B, of the thickness specified and AGGREGATE FOR TEMPORARY ACCESS shall be limited to crushed gravel, crushed stone, or crushed concrete and will be measured for payment in square yards in accordance with Article 311.08(b) of the 'Standard Specifications'.

18. Suitable aggregate from AGGREGATE FOR TEMPORARY ACCESS may be utilized for another purpose with the approval of the Engineer. Aggregate not reused, shall be removed and disposed of outside of the right-of-way according to Article 202.03 of the 'Standard Specifications'. Measurement will be made for the initial use of the aggregate only, regardless of the number of times the aggregate is moved and/or reused.

19. For COMBINATION CURB AND GUTTER REMOVAL, the material removed shall be disposed of, outside the right-of-way, according to Article 202.03 of the 'Standard Specifications'.

20. The last three sections of pipe for unsupported concrete culvert pipe and storm sewer upstream of the fixed end section/end of the pipe shall include the installation of joint ties. The joint ties shall be installed according to the LCDOT standard LC5402 JOINT TIES FOR CONCRETE PIPE, included in the plans. The ties shall be installed at the locations as shown on the standard and/or as directed by the Engineer. The work will not be paid for separately, but shall be included in the unit price of the concrete PIPE CULVERTS and/or concrete STORM SEWERS of the size and type specified.

21. PIPE CULVERTS shall be limited to corrugated steel pipe.

22. STORM SEWERS shall be limited to reinforced concrete pipe.

23. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 shall be constructed with one inch expansion joints at maximum intervals of 150 feet.

24. For TRENCH BACKFILL, the maximum pay width for backfilling storm sewer and culvert trenches shall be the outside diameter of the pipe plus 18" for trench depths up to five feet (no shoring required), or the outside diameter of the pipe plus 36" for trench depths over five feet (shoring required). Maximum trench widths for round pipes up to 48" in diameter are included in the Lake County Standard LC0020 shown on the Plans.

25. TRANSITION FROM AGGREGATE SHOULDER TO B-6.24 FOR 16' OFFSET TO FACE (LC4800)

- a) The 6' curb transition from 6' height to 0' height shall be included in the unit price for CONCRETE CURB AND GUTTER TYPE B-6.24.
- b) The hot-mix asphalt binder course shall be replaced with hot-mix asphalt surface course. All hot-mix asphalt paving will be paid for as HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50.

26. TOPSOIL FURNISH AND PLACE, 4"

- a) The topsoil shall be furnished from outside the right-of-way and shall meet the requirements of Article 1081.05(a) of the 'Standard Specifications'.
- b) The Contractor shall collect one representative soil sample from the proposed growing surface which shall be analyzed by an agricultural laboratory approved by the Engineer. The Contractor shall submit the proposed laboratory name and address to the Engineer at the pre-construction conference. The soils analysis shall include (but is not limited to) the recommended application rates of nitrogen and potassium fertilizer nutrients.

27. TRAFFIC CONTROL AND PROTECTION (SPECIAL)

a) Article 105.03 Conformity with Contract (b) shall have the first paragraph replaced with the following:

Traffic Control Deficiency Deduction. When the Engineer is notified or determines a traffic control deficiency exists, the Engineer will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from one (1) hour to 8 (eight) hours based upon the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge.

b) Article 701.04 General shall be further modified by adding the following sections:

Public Safety and Convenience:

The Contractor shall provide a telephone number for a responsible individual who can be contacted 24 hours a day, 7 days a week, to receive notification of any deficiencies in traffic control and protection. The Contractor shall dispatch men, materials, and equipment to correct any such deficiencies. The Contractor shall respond to any call from LCDOT concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two (2) hours from the time of notification.

Personal vehicles shall not park within the right-of-way except in specific areas designated by the Engineer. All roads shall remain open to traffic. The Contractor may close one lane on two lane roads, because of construction, between the hours of 9:00 AM and 3:00 PM only. The Contractor shall maintain one-way traffic during these restricted hours with the use of signs and flagmen as shown on the Traffic Control Standards. Two lanes of traffic will be maintained between the hours of 3:00 PM and 9:00 AM and when no construction activities are being carried out.

The restricted lane closure time may be adjusted by the Engineer. The Contractor shall provide a start and end time and a procedure plan 48 hours prior to the lane(s) to be closed. The Engineer shall notify the Contractor of his decision 24 hours in advance of the proposed lane closure. If the Contractor fails to provide notification or disregards the decision of the Engineer, the Traffic Control Deficiency Charge will be applied as stated in this special provision.

c) Article 701.10 Surveillance shall be modified by adding the following section.

The Contractor shall ensure that all the traffic control devices he/she installs are operational, functional and effective 24 hours a day, 7 days a week, including holidays.

d) Article 701.18 Highway Standards Application (j) Urban Traffic Control, Standards 70150, 701502, 701601, 701602, 701606, 701701, and 701801 (i) General, shall be modified by adding the following paragraphs:

Whenever any vehicle, equipment, workers or their activities infringe on the shoulder or within 15 feet of the traveled way, and the traveled way remains unobstructed, then the applicable Traffic Control Standard shall be 701006, 701011, 701011, or 701701. The 'SHOULDER WORK AHEAD' sign (W21-S101-48) shall be used in lieu of the 'WORKERS' sign (W21-1 or W-21-1a).

All diamond shaped warning signs shall have a minimum dimension of 48 inches x 48 inches.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 142 LBS/SQ YD/IN

THE 'AC TYPE' FOR POLYMERIZED HMA MIXES SHALL BE 'SBS/SBR PG-70-22' AND FOR NON-POLYMERIZED HMA THE 'AC TYPE' SHALL BE 'PG 64-22' UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS

FOR 'PERCENT OF RAP' SEE DISTRICT ONE SPECIAL PROVISIONS

CONTACT INFORMATION

LAKE COUNTY DOT

OFFICE: (847) 377-7400
 FAX: (847) 984-5855
 CONTACT: MR. DARRRELL KUNTZ

NORTH SHORE GAS - WAUKEGAN

OFFICE: (847) 263-4678
 FAX: (847) 263-3226
 CONTACT: MR. JAY HAMMER

ILLINOIS DOT

OFFICE: (847) 705-4406
 FAX: (847)
 CONTACT: MR. CHARLES RIDDLE

COMED - MUNDELEIN

OFFICE: (847) 816-5339
 FAX: (847) 816-5348
 CONTACT: MS. TERRIBLECK

VILLAGE OF MUNDELEIN

OFFICE: (847) 949-3220
 FAX: (847) 949-8675
 CONTACT: MR. BILL EMMERICH

COMCAST

OFFICE: (630) 600-6347
 FAX: (630) 600-6390
 CONTACT: MR. ROBERT SCHULTER

MUNDELEIN PARKS & REC. DIST.

OFFICE: (847) 566-0650
 FAX: (847) 566-8557
 CONTACT: MS. MARGARET RESNIK

AT&T CORP.

OFFICE: (630) 573-5703
 FAX: (630) 573-5567
 CONTACT: MS. ANTOINETTE GLOVER-JONES

NATURAL GAS PIPELINE CO KINDER MORGAN

OFFICE: (815) 272-9110
 FAX: (815) 272-9124
 CONTACT: MR. CRAIG HOWARD

FILE NAME -	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND CONTACT INFORMATION			F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILELS	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -					2605	09-00171-13-BT	LAKE	59	2
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -					CONTRACT NO. 63619				
		DATE -	REVISED -					SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE	
STA FUNDS	
80% FED	
20% COUNTY	
ROADWAY	

CODED PAY ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		SCH. # / SHEET #
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	28	1/4	
* 20101100	TREE TRUNK PROTECTION	EACH	7	2/4	
* 20101200	TREE ROOT PRUNING	EACH	3	3/4	
* 20200100	EARTH EXCAVATION	CU YD	4385	4/4	
* 20400800	FURNISHED EXCAVATION	CU YD	2331	5/4	
* 20800150	TRENCH BACKFILL	CU YD	117	6/5	
* 21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1000	7/5	
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	11818	8/5	
* 25000210	SEEDING, CLASS 2A	ACRE	1.4	9/5	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	189	10/5	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	189	11/5	
* 25100630	EROSION CONTROL BLANKET	SQ YD	6923	12/5	
* 25200110	SODDING, SALT TOLERANT	SQ YD	4896	13/5	
* 25200200	SUPPLEMENTAL WATERING	UNIT	73	14/5	
* 28000305	TEMPORARY DITCH CHECKS	FOOT	238	15/5	
* 28000400	PERIMETER EROSION BARRIER	FOOT	2274	16/5	
* 28000500	INLET AND PIPE PROTECTION	EACH	17	17/5	
* 35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	6453	18/5	
* 35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	633	19/5	
* 35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	162	20/5	
* 40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	61	21/5	
* 40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N 50	TON	738	22/5	
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3580	23/5	
* 42400800	DETECTABLE WARNINGS	SQ FT	248	24/5	
* 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	236	25/5	
* 44000600	SIDEWALK REMOVAL	SQ FT	10626	26/5	
* 44004250	PAVED SHOULDER REMOVAL	SQ YD	262	27/5	
* 54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	28/5	
* 54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	29/5	
* 5421D015	PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)	FOOT	21	30/5	
* 542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	5	31/5	
* 54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	1	32/5	
* 550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	401	33/5	
* 550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	5	34/5	
* 550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	5	35/5	
* 55100500	STORM SEWER REMOVAL 12"	FOOT	60	36/5	
* 55100700	STORM SEWER REMOVAL 15"	FOOT	10	37/5	
* 56400100	FIRE HYDRANT TO BE MOVED	EACH	6	38/5	
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1	39/5	
* 60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	4	40/5	
* 60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	41/5	
* 60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	42/5	
* 60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	43/6	
* 60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	44/6	
* 60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	45/6	
* 60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	46/6	
* 60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	47/6	
* 60266300	VALVE VAULTS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	48/6	
* 60500040	REMOVING MANHOLES	EACH	1	49/6	
* 60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	731	50/6	
* 60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	236	51/6	
* 67100100	MOBILIZATION	L SUM	1	N/A	
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	53/6	
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	60	54/6	
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	55/6	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	304	56/6	
* 78300100	PAVEMENT MARKING REMOVAL	SQ FT	137	57/6	
* 89501510	RELOCATE EXISTING FLASHING BEACON	EACH	1	58/6	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	59/6	
* A2001024	TREE, ACER RUBRUM (RED MAPLE), 3" CALIPER, BALLED AND BURLAPED	EACH	1	60/6	
* K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	0.07	61/6	
* X0301508	REMOVE AND REINSTALL CONCRETE HEADWALL	EACH	1	62/6	
* X6013600	PIPE UNDERDRAINS 4" (MODIFIED)	FOOT	950	63/6	
* X6024240	INLETS, SPECIAL	EACH	1	64/6	
* X6700405	ENGINEERS FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	3	NA	
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	NA	
* X8140115	HANDHOLE TO BE ADJUSTED	EACH	1	67/6	
* Z0012450	CONCRETE STEPS	CU YD	2	68/6	
* Z0062450	SAWING PAVEMENT (FULL DEPTH)	FOOT	955	69/6	
* Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	51	70/6	

* SEE GENERAL NOTE
□ SPECIALTY ITEM
◇ SEE SPECIAL PROVISION

FILE NAME -	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -					2605	09-0071-13-BT	LAKE	59	3
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -					SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 63619	
ILLINOIS FED. AID PROJECT												

43 INLETS, TYPE A, TYPE 8 GRATE				
STATION	OFFSET	LT/RT	EACH	
21+00.00	35.58	LT	1	
PAY ITEM 60236200			TOTAL	1

44 CATCH BASINS TO BE ADJUSTED				
STATION	OFFSET	LT/RT	EACH	
13+90.00	31.20	LT	1	
PAY ITEM 60250200			TOTAL	1

45 MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID				
STATION	OFFSET	LT/RT	EACH	
12+02.77	42.57	LT	1	
14+47.05	43.39	LT	1	
21+75	43.25	LT	1	
PAY ITEM 60258800			TOTAL	3

46 MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID				
STATION	OFFSET	LT/RT	EACH	
0+82.56	42.44	LT	1	
71+21.20	34.06	LT	1	
PAY ITEM 60258200			TOTAL	2

47 VALVE VAULTS TO BE ADJUSTED WITH TYPE 1 FRAME, CLOSED LID				
STATION	OFFSET	LT/RT	EACH	
4+98.23	43.67	LT	1	
8+52.50	49.26	LT	1	
75+20.06	41.53	LT	1	
PAY ITEM 60265900			TOTAL	3

48 VALVE VAULTS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID				
STATION	OFFSET	LT/RT	EACH	
78+24.64	34.10	LT	1	
PAY ITEM 60266300			TOTAL	1

49 REMOVING MANHOLES				
STATION	OFFSET	LT/RT	EACH	
22+77.40	42.70	LT	1	
PAY ITEM 60500040			TOTAL	1

50 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24				
FROM STATION	TO STATION	LT/RT	LENGTH (FT)	
71+42.02	78+72.53	LT	730.51	
PAY ITEM 60605000			TOTAL	731

51 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)				
FROM STATION	TO STATION	LT/RT	LENGTH (FT)	
MIDLOTHIAN ROAD				
0+54.19	0+61.37	LT	18.77	
3+98.37	4+04.50	LT	15.31	
4+29.73	4+43.07	LT	20.02	
7+65.04	7+81.83	LT	22.95	
8+23.04	8+35.05	LT	21.09	
12+50.23	12+55.58	LT	16.16	
13+29.95	13+34.95	LT	16.02	
16+75.76	17+00.57	LT	31.86	
17+42.35	17+60.76	LT	28.14	
25+93.43	26+00.83	LT	15.77	
112+15.73	112+23.87	LT	15.13	
SHEFIELD AVENUE				
300+46.72	300+59.30	RT	14.80	
PAY ITEM 60605100			TOTAL	236

53 REMOVE SIGN PANEL ASSEMBLY - TYPE A				
STATION	OFFSET	LT/RT	EACH	
5+98		LT	1	
78+65		LT	1	
96+14		LT	1	
PAY ITEM 72400100			TOTAL	3

54 REMOVE SIGN PANEL - TYPE 1				
STATION	LT/RT	SQ FT		
5+22	LT	7.5		
9+11	LT	7.5		
14+70	LT	5		
18+38	LT	7.5		
20+63	LT	5		
25+95	LT	5.5		
78+65	LT	4		
78+65	LT	4		
96+14	LT	4		
96+14	LT	4		
303+29	RT	6		
PAY ITEM 72400310			TOTAL	60

55 RELOCATE SIGN PANEL ASSEMBLY - TYPE A				
STATION	OFFSET	LT/RT	EACH	
301+25		RT	1	
PAY ITEM 72400500			TOTAL	1

56 THERMOPLASTIC PAVEMENT MARKING - LINE 12"				
FROM STATION	TO STATION	OFFSET	LT/RT	LENGTH (FEET)
16+95	17+49	41.50	LT	152
300+50	300+58	50.00	LT	152
PAY ITEM 78000600			TOTAL	304

57 PAVEMENT MARKING REMOVAL				
FROM STATION	TO STATION	LT/RT	AREA (SQ FT)	
16+94.87	17+46.96	LT	26	
16+99.26	17+43.81	LT	23	
26+00.85	26+28.48	LT	88	
PAY ITEM 78300100			TOTAL	137

58 RELOCATE EXISTING FLASHING BEACON				
STATION	OFFSET	LT/RT	EACH	
16+60	43.50	LT	1	
PAY ITEM 89501510			TOTAL	1

59 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT				
STATION	OFFSET	LT/RT	EACH	
21+82		LT	1	
PAY ITEM 89502375			TOTAL	1

60 TREE, ACER RUBRUM (RED MAPLE), 3" CALIPER, BALLED AND BURLAPED				
STATION	OFFSET	LT/RT	EACH	
65+66.49	124.33	LT	1	
PAY ITEM A2001024			TOTAL	1

61 PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT				
STATION	OFFSET	LT/RT	EACH	
3+37.58	56.43	LT	1	
3+42.33	55.71	LT	1	
3+46.92	55.57	LT	1	
3+52.31	55.69	LT	1	
3+57.63	55.95	LT	1	
3+62.20	56.31	LT	1	
3+66.30	56.46	LT	1	
PAY ITEM K0012990			TOTAL	0.07 UNITS

62 REMOVE AND REINSTALL CONCRETE HEADWALL				
STATION	OFFSET	LT/RT	EACH	
105+47.43	43.33	LT	1	
PAY ITEM X0301508			TOTAL	1

63 PIPE UNDERDRAINS 4" (MODIFIED)				
FROM STATION	TO STATION	LT/RT	LENGTH (FEET)	
13+90	16+00	LT	210	
71+50	73+00	LT	150	
73+00	74+50	LT	150	
74+50	77+00	LT	250	
77+00	78+72.50	LT	173	
105+45		LT	17	
PAY ITEM X6013900			TOTAL	950

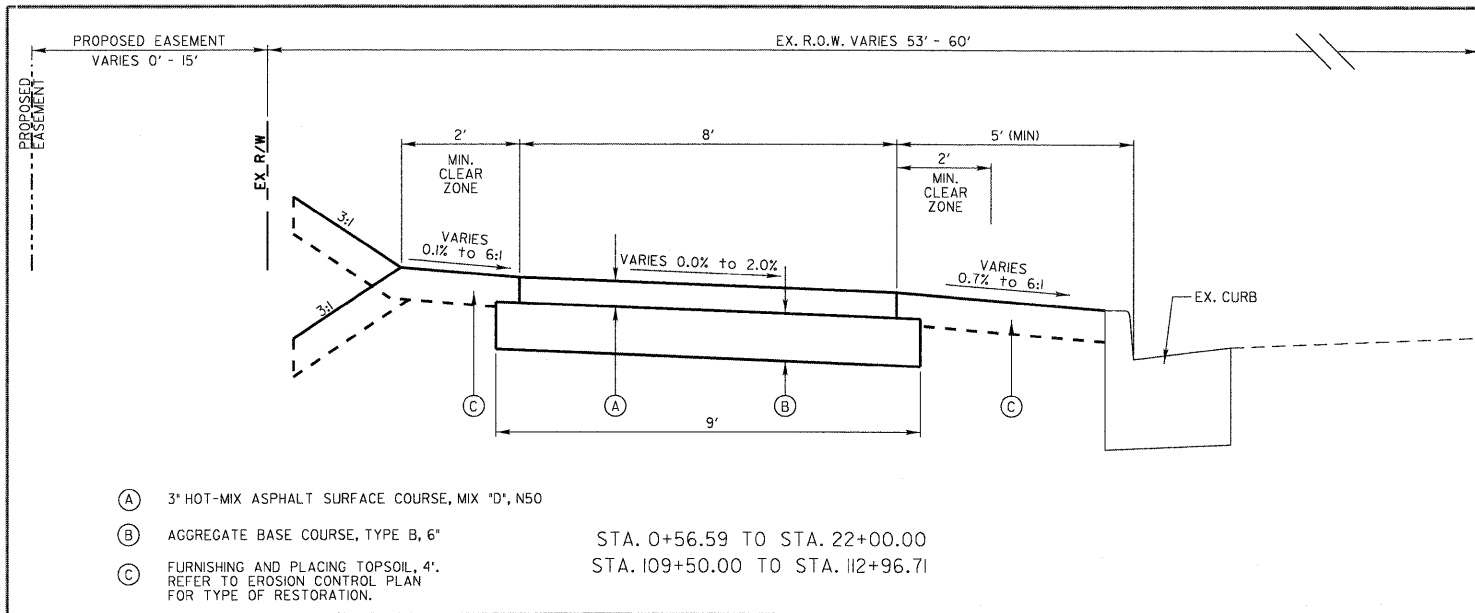
64 INLETS, SPECIAL				
STATION	OFFSET	LT/RT	EACH	
22+78.08	46.90	LT	1	
PAY ITEM X6024240			TOTAL	1

67 HANDHOLE TO BE ADJUSTED				
STATION	OFFSET	LT/RT	EACH	
0+69.04	46.88	LT	1	
PAY ITEM X8140115			TOTAL	1

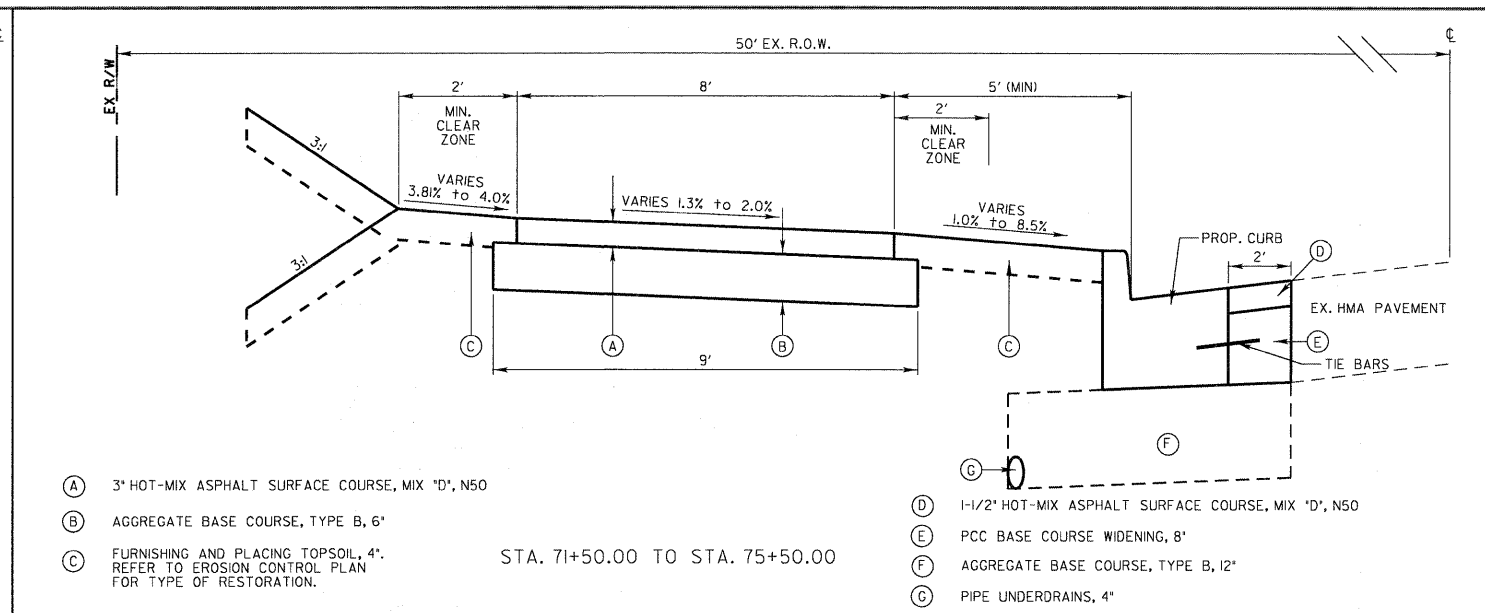
68 CONCRETE STEPS				
STATION	OFFSET	LT/RT	VOLUME (CU YD)	
4+55.47		LT	2	
PAY ITEM Z0012450			TOTAL	2

69 SAWING PAVEMENT (FULL DEPTH)				
FROM STATION	TO STATION	LT/RT	LENGTH (FOOT)	
MIDLOTHIAN ROAD				
6+41.50	6+53.66	LT	13	
13+67.98	13+77.90	LT	10	
16+90.44	16+94.35	LT	4	
17+48.11	17+52.12	LT	4	
25+76.33	25+82.44	LT	7	
64+42.19	65+00.19	LT	66	
65+93.58	66+22.67	LT	34	
70+09.21	70+65.02	LT	57	
71+42.02	78+72.53	LT	731	
78+90.00	78+90.00	LT	9	
95+90.00	95+90.00	LT	8	
SHEFIELD AVENUE				
303+29.48	303+37.45	RT	8	
303+50.76	303+50.76	RT	4	
PAY ITEM Z0062450			TOTAL	955

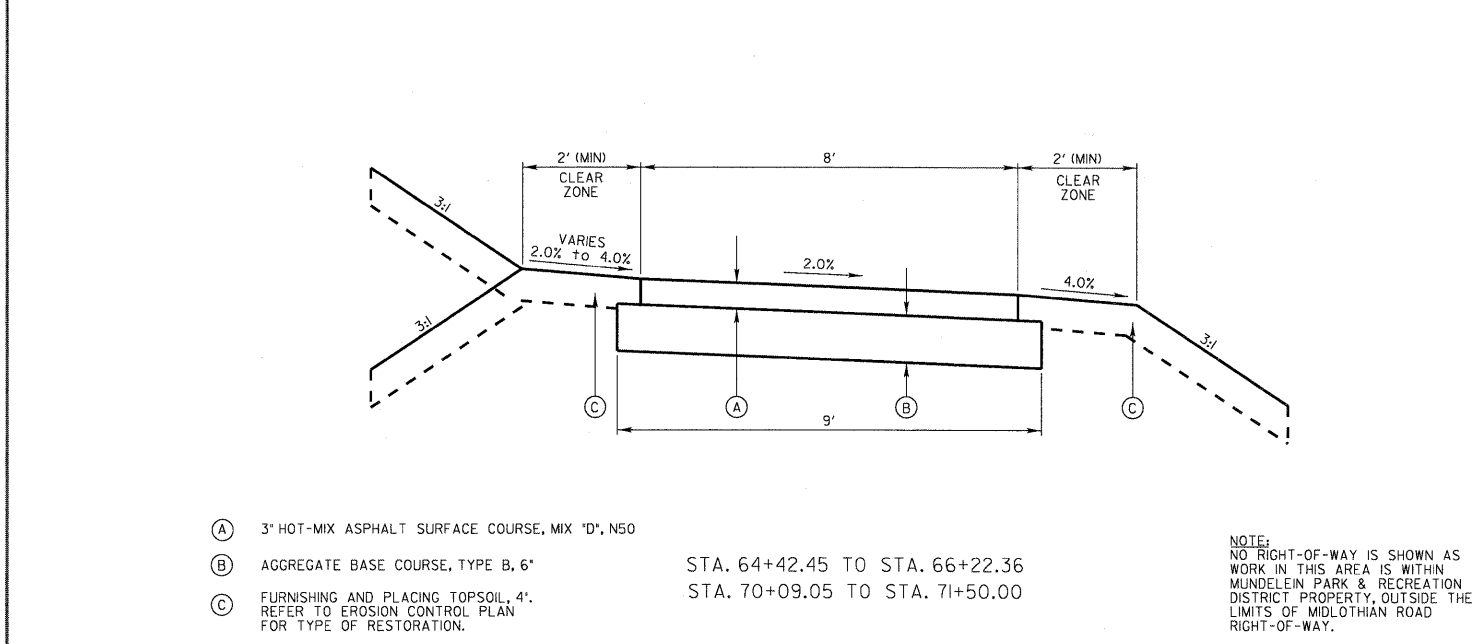
70 GEOTECHNICAL REINFORCEMENT				
FROM STATION	TO STATION	LT/RT	AREA (SQ YD)	
75+43	75+63	LT	51.00	
PAY ITEM Z0028415			TOTAL	51



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (B) AGGREGATE BASE COURSE, TYPE B, 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4". REFER TO EROSION CONTROL PLAN FOR TYPE OF RESTORATION.

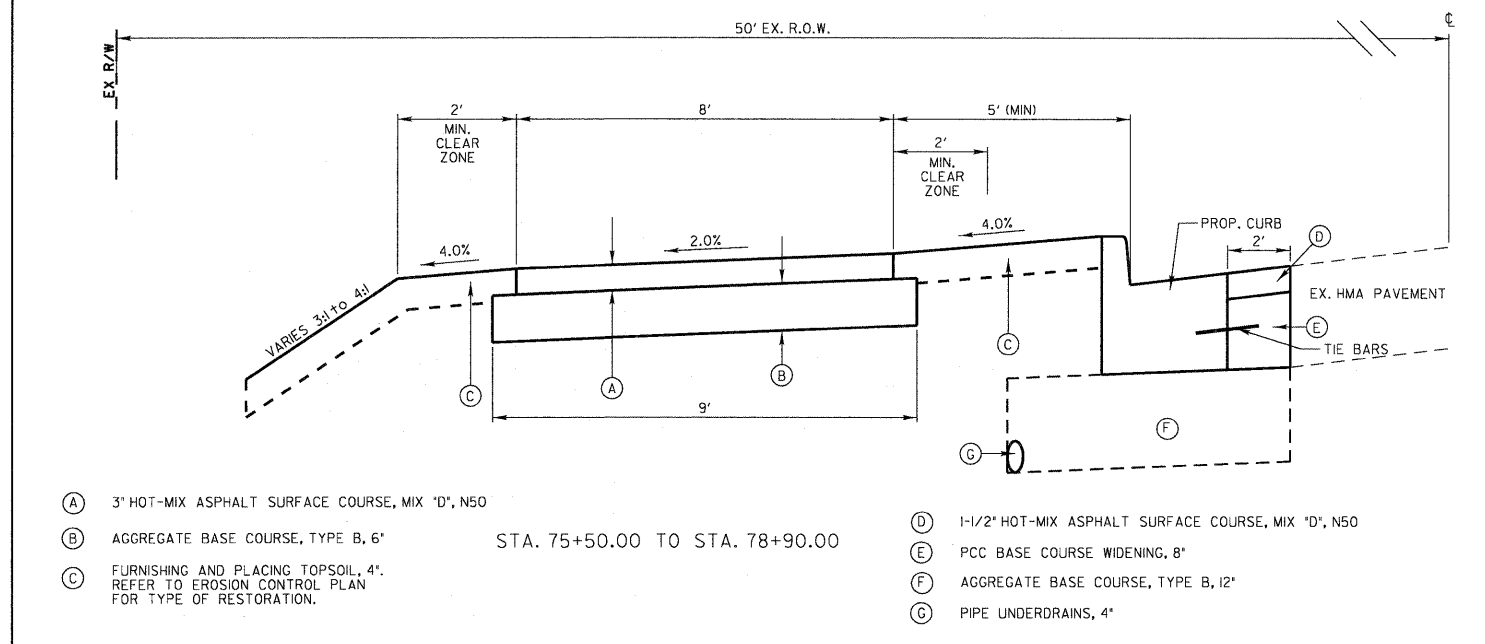


- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (B) AGGREGATE BASE COURSE, TYPE B, 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4". REFER TO EROSION CONTROL PLAN FOR TYPE OF RESTORATION.
- (D) 1-1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (E) PCC BASE COURSE WIDENING, 8"
- (F) AGGREGATE BASE COURSE, TYPE B, 12"
- (G) PIPE UNDERDRAINS, 4"

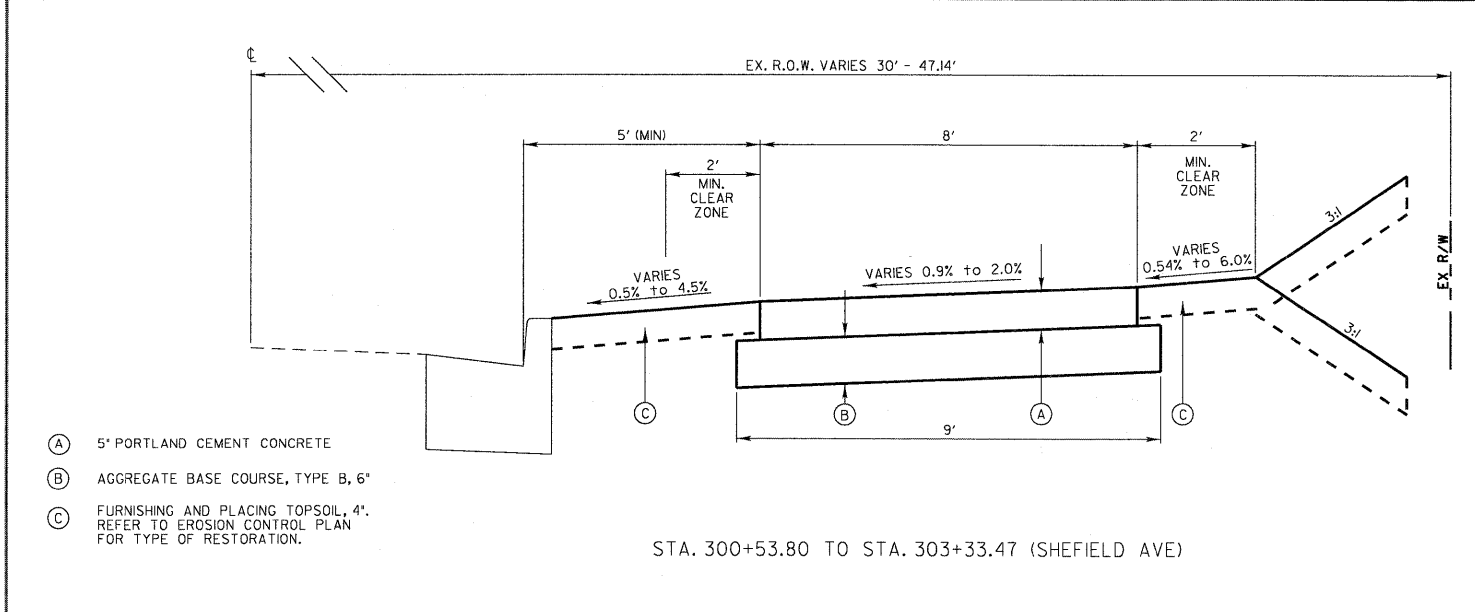


- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (B) AGGREGATE BASE COURSE, TYPE B, 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4". REFER TO EROSION CONTROL PLAN FOR TYPE OF RESTORATION.

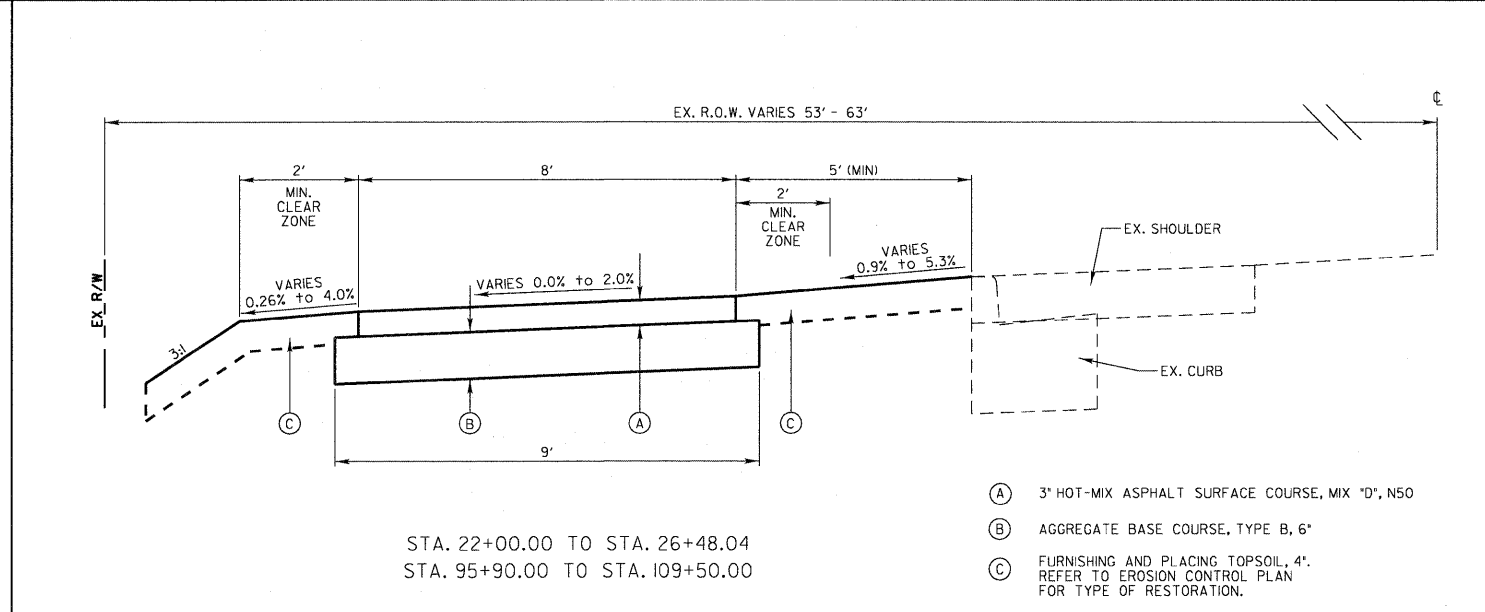
NOTE:
NO RIGHT-OF-WAY IS SHOWN AS WORK IN THIS AREA IS WITHIN MUNDELEIN PARK & RECREATION DISTRICT PROPERTY, OUTSIDE THE LIMITS OF MIDLOTHIAN ROAD RIGHT-OF-WAY.



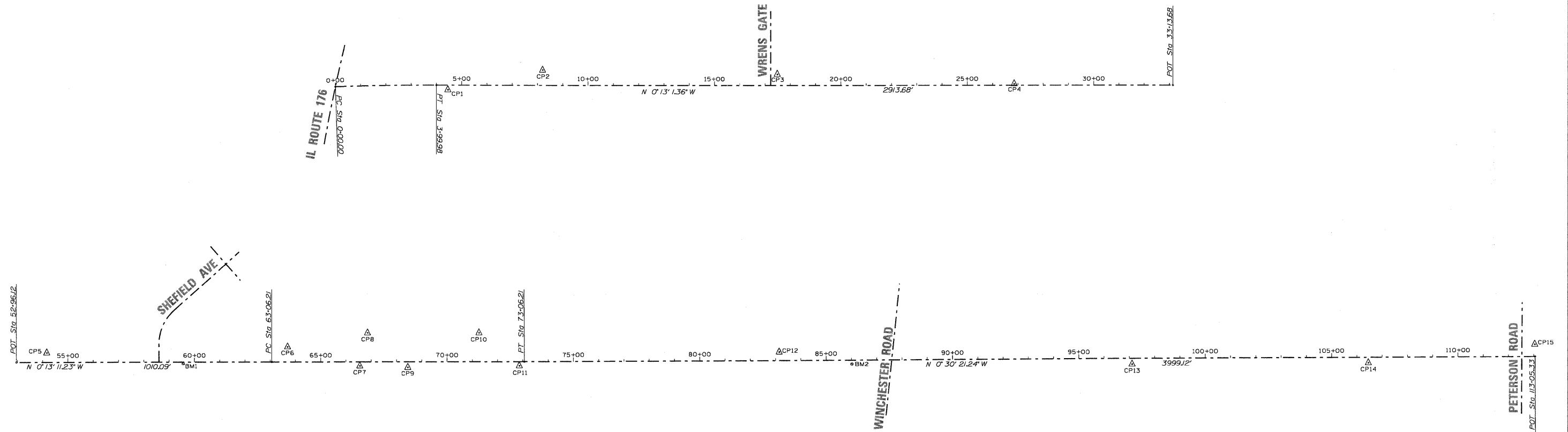
- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (B) AGGREGATE BASE COURSE, TYPE B, 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4". REFER TO EROSION CONTROL PLAN FOR TYPE OF RESTORATION.
- (D) 1-1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (E) PCC BASE COURSE WIDENING, 8"
- (F) AGGREGATE BASE COURSE, TYPE B, 12"
- (G) PIPE UNDERDRAINS, 4"



- (A) 5" PORTLAND CEMENT CONCRETE
- (B) AGGREGATE BASE COURSE, TYPE B, 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4". REFER TO EROSION CONTROL PLAN FOR TYPE OF RESTORATION.



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50
- (B) AGGREGATE BASE COURSE, TYPE B, 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4". REFER TO EROSION CONTROL PLAN FOR TYPE OF RESTORATION.



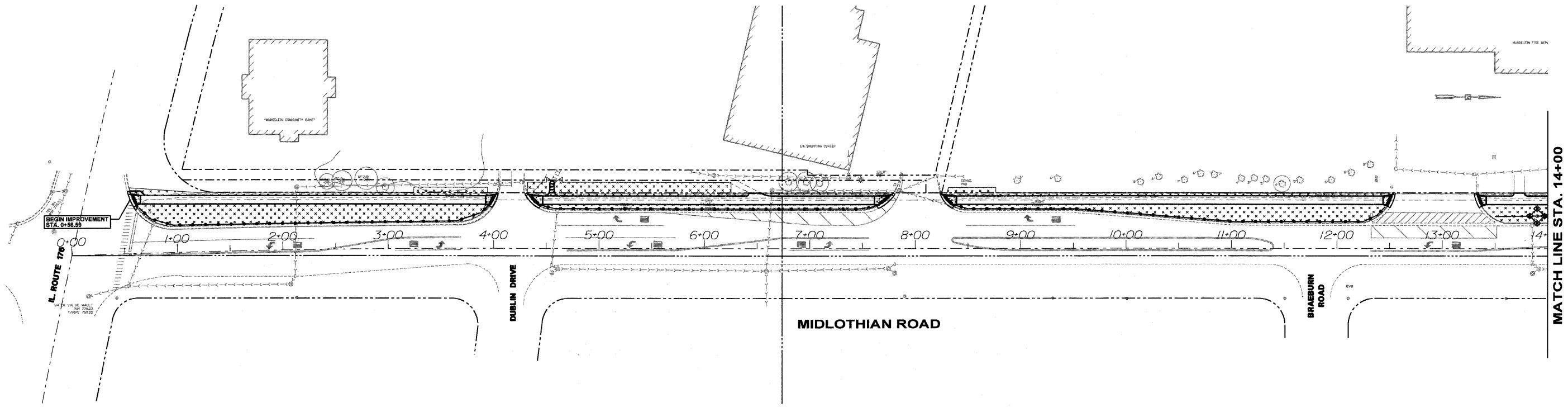
MIDLOTHIAN ROAD CENTERLINE COORDINATES			
DESCRIPTION	STATION	NORTHING	EASTING
PC	0+00.00	554.23	990.46
PT	3+99.98	954.08	981.95
POT	33+13.68	3867.78	970.91
POT	52+96.12	5849.50	964.02
PC	63+06.21	6859.58	960.15
PT	73+06.21	7859.56	953.82
POT	113+05.33	11858.52	918.51

CONTROL POINTS						
NUMBER	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEVATION
CP1	MAG NAIL	4+45.81	18.23 RIGHT	1000.00	1000.00	779.56
CP2	MAG NAIL	8+20.75	60.38 LEFT	1374.64	919.98	782.86
CP3	MAG NAIL	17+49.18	44.75 LEFT	2303.12	932.08	784.03
CP4	MAG NAIL	26+86.03	5.89 LEFT	3240.11	967.40	786.88
CP5	MAG NAIL	54+16.51	36.95 LEFT	5969.74	926.61	803.89
CP6	IRON ROD	63+69.15	59.14 LEFT	6922.27	900.75	801.60
CP7	SPIKE	66+55.13	16.32 RIGHT	7208.59	974.82	794.59
CP8	MAG NAIL	66+85.84	114.20 LEFT	7238.55	844.13	805.51
CP9	MAG NAIL	68+45.08	22.58 RIGHT	7398.59	979.94	796.54
CP10	MAG NAIL	71+27.31	113.88 LEFT	7679.76	841.44	805.70
CP11	MAG NAIL	72+86.87	16.42 RIGHT	7840.37	970.40	807.83
CP12	MAG NAIL	83+14.92	33.51 LEFT	8867.93	911.40	812.98
CP13	SPIKE	97+11.29	23.20 RIGHT	10264.75	955.78	810.59
CP14	SPIKE	106+45.93	21.94 RIGHT	11199.34	946.27	821.38
CP15	MAG NAIL	113+04.77	47.89 LEFT	11857.54	870.62	820.64

BENCHMARKS						
NUMBER	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEVATION
BM1	BRASS MONUMENT	59+55.75	6.34 RIGHT	6509.14	967.83	804.00
BM2	BRASS MONUMENT	86+01.97	15.81 RIGHT	9155.41	958.18	809.19

EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN

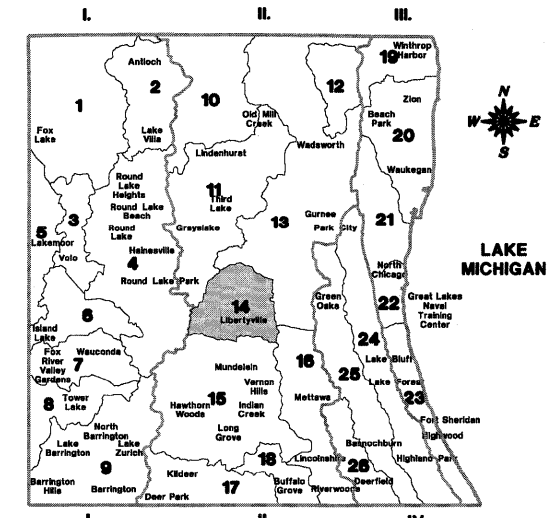
THIS PROJECT DISTURBS 2.6 ACRES OF TOTAL LAND AREA.
COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)
STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1.0 OR MORE ACRES OF
TOTAL LAND AREA; AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT.



GENERAL NOTES FOR SEDIMENTATION AND EROSION CONTROL

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
3. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
4. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION WILL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
6. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
7. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.
9. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
10. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
11. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE FENCE INSTALLATION RESTORED. THE RESTORATION OF THE AREA DISTURBED BY THE PERIMETER EROSION BARRIER REMOVAL SHALL BE INCLUDED WITH THE PAY ITEM FOR PERIMETER EROSION BARRIER.
12. AS SHOWN ON THESE PLANS, ALL DISTURBED AREAS FROM APPROXIMATELY STATION 70+50 NORTH TO PETERSON ROAD SHALL BE RESTORED WITH SEEDING, CLASS 2A AND EROSION CONTROL BLANKET. THE REMAINDER OF THE PROJECT SHALL BE RESTORED WITH SODDING, COMPLETE.

DRAINAGE BASINS OF LAKE COUNTY



- I. FOX RIVER WATERSHED**
1. Upper Fox River
 2. Sequoit Creek
 3. Fish Lake Drain
 4. Squaw Creek
 5. Lower Fox River
 6. Mutton Creek
 7. Slocum Lake Drain
 8. Tower Lake Drain
 9. Flint Creek
 10. North Mill Creek
- II. DES PLAINES RIVER WATERSHED**
11. Mill Creek
 12. Newport Drainage Ditch
 13. Upper Des Plaines River
 14. Bull Creek
 15. Indian Creek
 16. Lower Des Plaines River
 17. Buffalo Creek
 18. Aptakistic Creek
- III. LAKE MICHIGAN WATERSHED**
19. Kellogg Creek
 20. Dead River
 21. Waukegan River
 22. Pettibone Creek
 23. Bluff Ravine
- IV. CHICAGO RIVER WATERSHED**
24. Skokie River
 25. Middle Fork
 26. West Fork

LEGEND

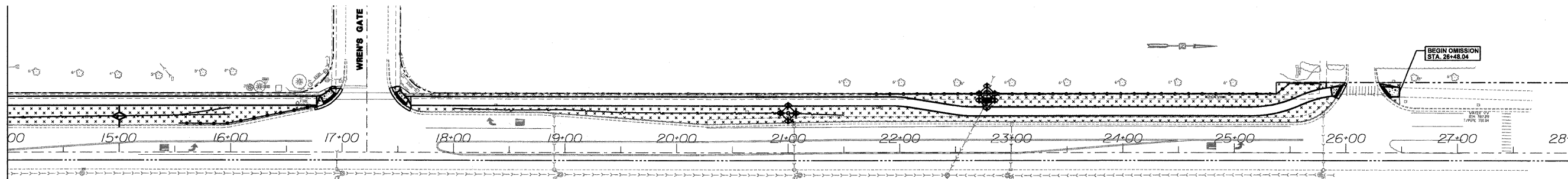
- PERIMETER EROSION BARRIER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING DITCH FLOW OR OUTFALL
- PROPOSED DITCH FLOW OR OUTFALL
- INLET PROTECTION
- PROPOSED HMA BIKE PATH
- PROPOSED CONCRETE SIDEWALK
- PROPOSED SODDING, COMPLETE

TYPICAL CONSTRUCTION SEQUENCING

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES.
 - A. SELECTIVE VEGETATION REMOVAL FOR PERIMETER EROSION BARRIER INSTALLATION
 - B. PERIMETER EROSION BARRIER INSTALLATION
 - C. INSTALL INLET PROTECTION TO EX. STORM STRUCTURES
 2. STRIP TOP SOIL AND BEGIN GRADING SITE
 3. INSTALL STORM SEWER AND ASSOCIATED INLET AND OUTLET PROTECTION
 4. TEMPORARILY STABILIZE ALL GRADING AREAS
 5. INSTALL BIKE PATH
 6. PERMANENTLY STABILIZE ALL GRADED AREAS
 7. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION
- * SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY SEVEN DAYS AND AFTER EVERY 0.5 INCH OR GREATER RAINFALL EVENT.

FILE NAME -	USER NAME - SUSERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN		F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 10
FILE#S	PLOT SCALE - #SCALES	CHECKED -	REVISED -	SCALE: 1" = 50'		SHEET NO. 1 OF 3 SHEETS	STA. 0+56.59 TO STA. 14+00.00	ILLINOIS FED. AID PROJECT CONTRACT NO. 63619				
	PLOT DATE - #DATES	DATE -	REVISED -									

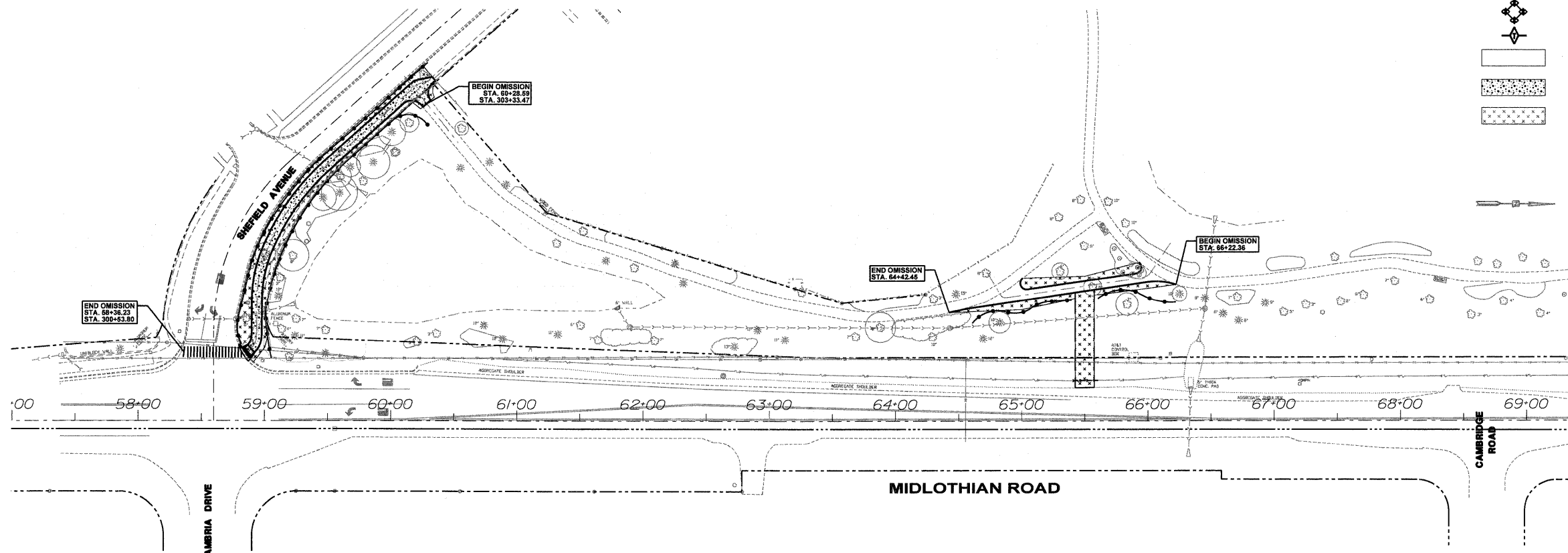
MATCH LINE STA. 14+00



MIDLOTHIAN ROAD

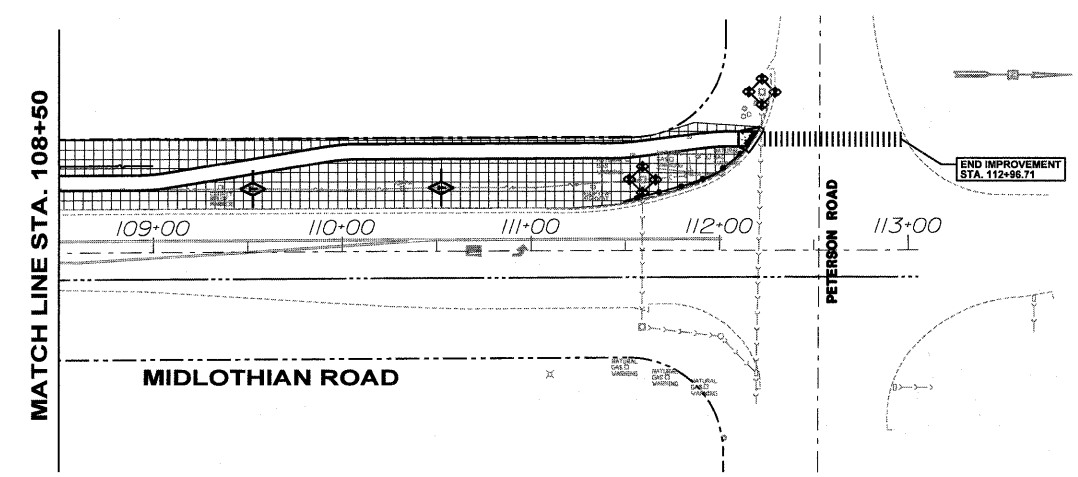
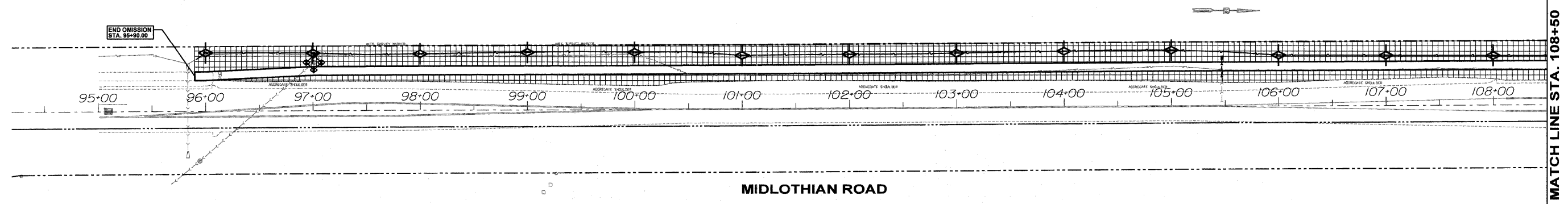
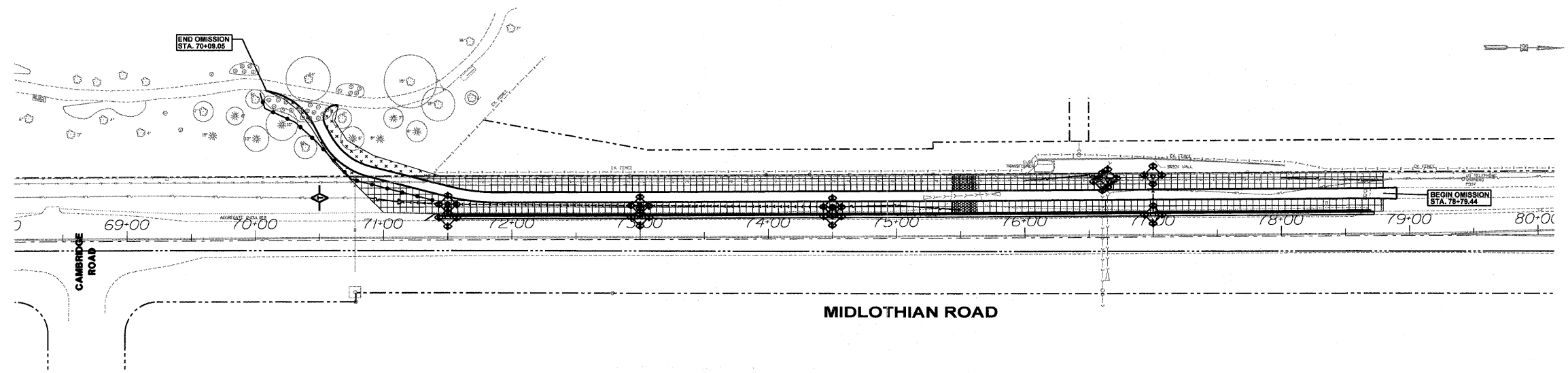
LEGEND

- PERIMETER EROSION BARRIER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING DITCH FLOW OR OUTFALL
- PROPOSED DITCH FLOW OR OUTFALL
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- PROPOSED HMA BIKE PATH
- PROPOSED CONCRETE SIDEWALK
- PROPOSED SODDING, COMPLETE



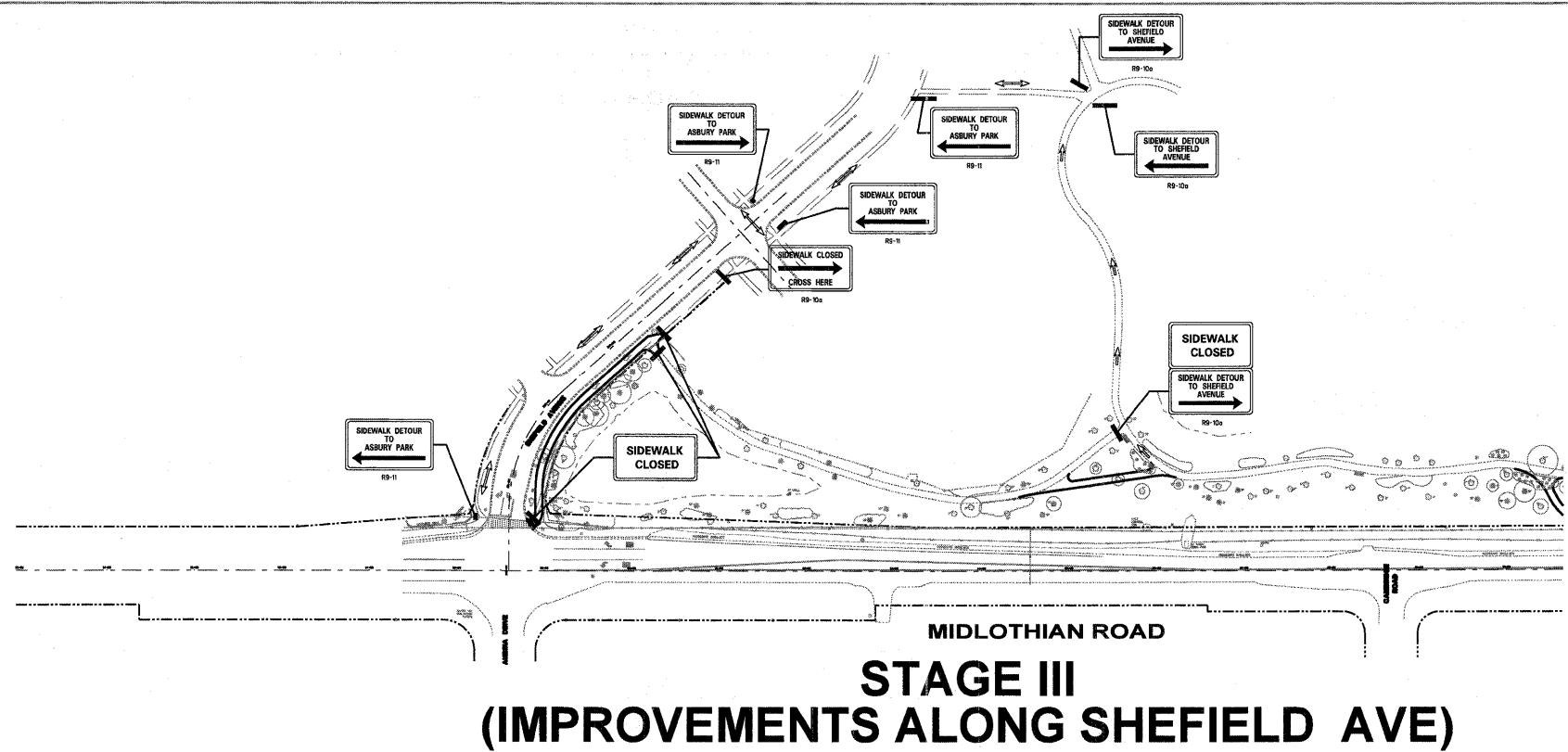
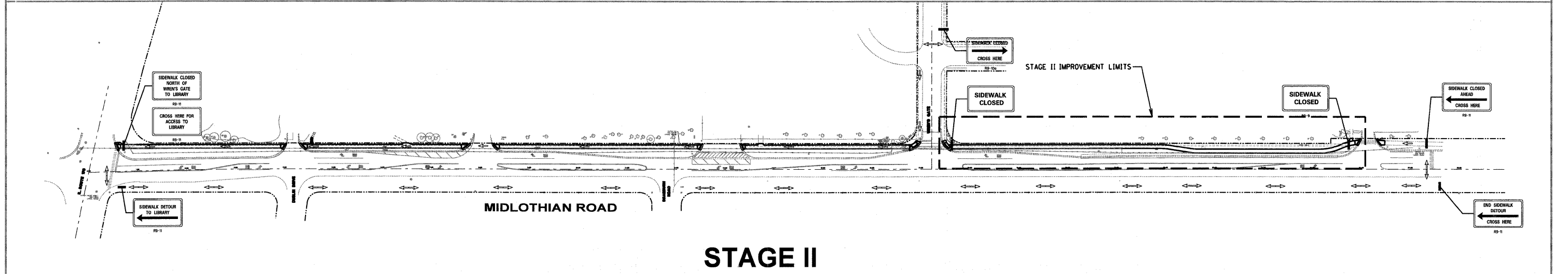
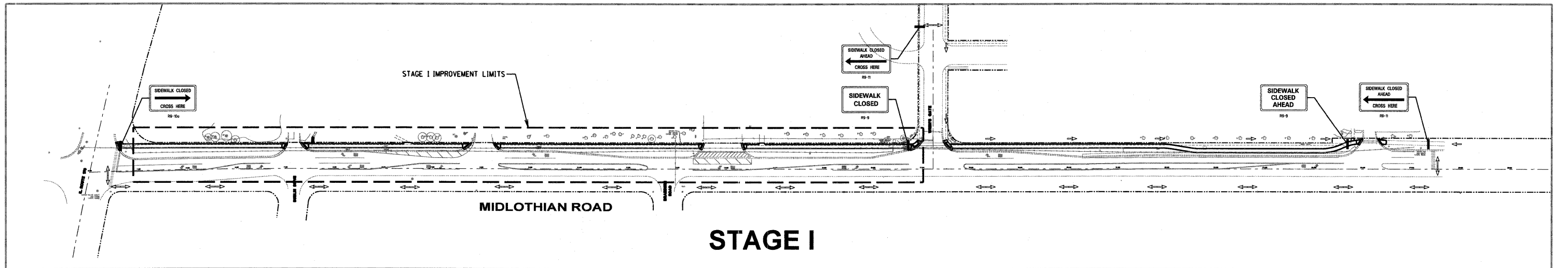
MIDLOTHIAN ROAD

FILE NAME - \$FILEL\$	USER NAME - \$USERS\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE - \$SCALE\$	CHECKED -	REVISED -		2605	09-00171-13-BT	LAKE	59	II				
PLOT DATE - \$DATE\$	DATE -	REVISED -	REVISED -		SCALE: 1" = 50'			SHEET NO. 2 OF 3 SHEETS		STA. 14+00.00 TO STA. 66+22.36		CONTRACT NO. 63619	
											ILLINOIS FED. AID PROJECT		



- LEGEND**
- PERIMETER EROSION BARRIER
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - EXISTING DITCH FLOW OR OUTFALL
 - PROPOSED DITCH FLOW OR OUTFALL
 - INLET PROTECTION
 - TEMPORARY DITCH CHECK
 - PROPOSED HMA BIKE PATH
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED SEEDING CLASS 2A
 - PROPOSED SODDING, COMPLETE

FILE NAME \$FILEL\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN			F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 12
	PLOT SCALE - \$SCALE\$	CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 3 SHEETS	STA. 70+09.05 TO STA. 112+21.00	CONTRACT NO. 63619				
PLOT DATE - \$DATE\$	DATE -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT								



PEDESTRIAN BYPASS PLAN NOTES

1. STAGE III AND ALL THE IMPROVEMENTS NORTHERLY THEREOF CAN BE PERFORMED ALONG WITH THE STAGE I AND II IMPROVEMENTS. STAGE I AND STAGE II IMPROVEMENTS MUST BE PERFORMED SEPARATELY TO MAINTAIN PEDESTRIAN ACCESS.
2. ALL SIGNAGE SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR, AND SHALL BE IN ACCORDANCE WITH MANUAL UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. ALL SIGNAGE SHALL BE 12"x24" AND MAY BE BARRICADE MOUNTED. ALL SIGNAGE SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM "TRAFFIC CONTROL AND PROTECTION, SPECIAL".
3. ALL SIGNAGE SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3 INCH x 6 INCH DELINEATOR INSTALLED.

PROFILE	REVISIONS	DATE
NO.	BY	
NOTE BOOK	BRANDS CHECKED	
	STRUCTURE NOTATIONS CHECKED	

FILE NAME SFILES	USER NAME - #USERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD PEDESTRIAN BYPASS PLAN		F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 13
	PLOT SCALE - #Scales	CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 63619		ILLINOIS FED. AID PROJECT	
PLOT DATE - #DATES	DATE -	REVISED -	REVISED -								

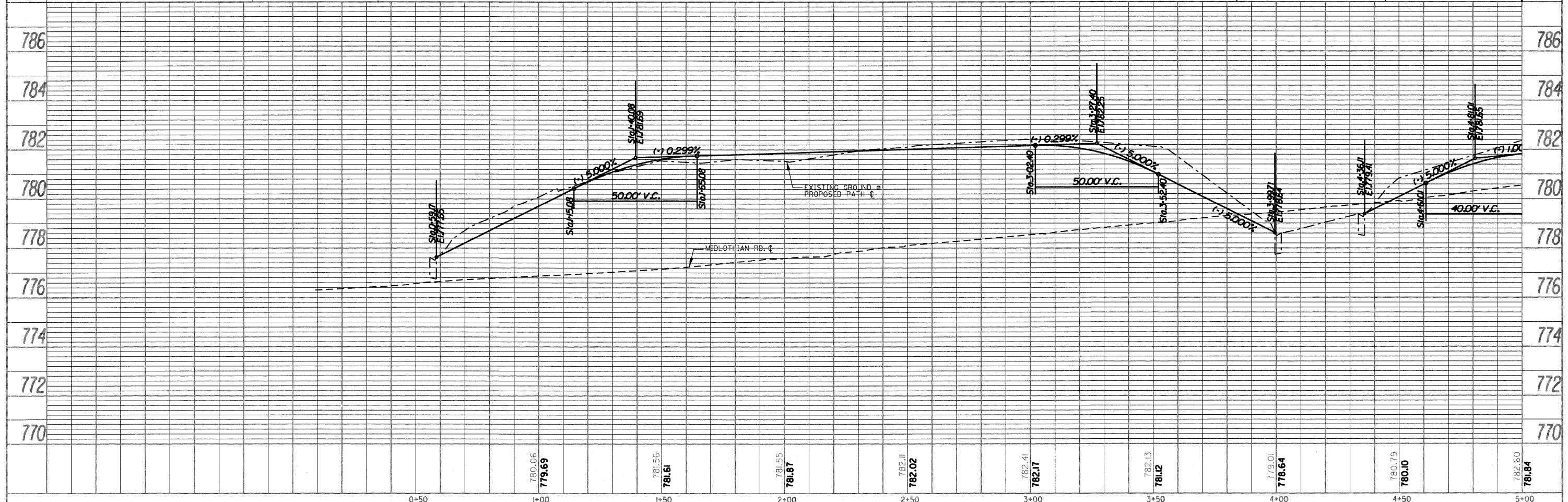
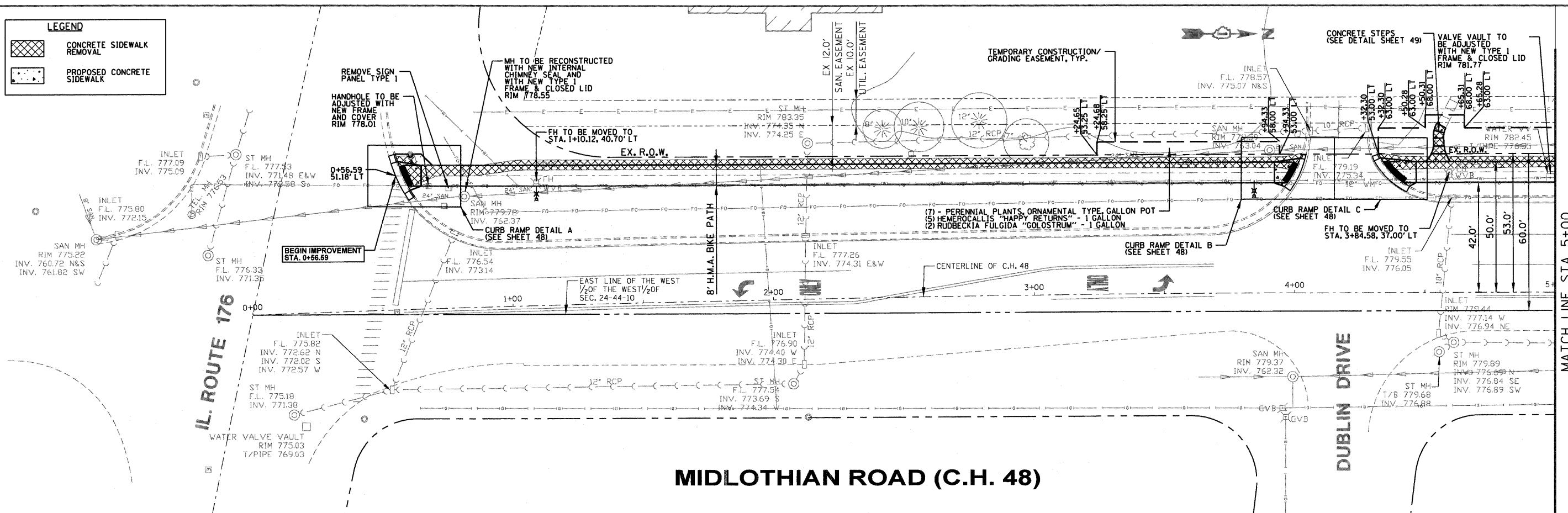
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 PLOTTED BY DATE
 CHECKED BY DATE
 REVISIONS OF WAY CHECKED
 NO. _____ CADD FILE NAME

PROFILE SURVEYED BY DATE
 PLOTTED BY DATE
 CHECKED BY DATE
 REVISIONS OF WAY CHECKED
 NO. _____ STRUCTURE NOTATIONS: DFD

LEGEND

CONCRETE SIDEWALK REMOVAL

PROPOSED CONCRETE SIDEWALK

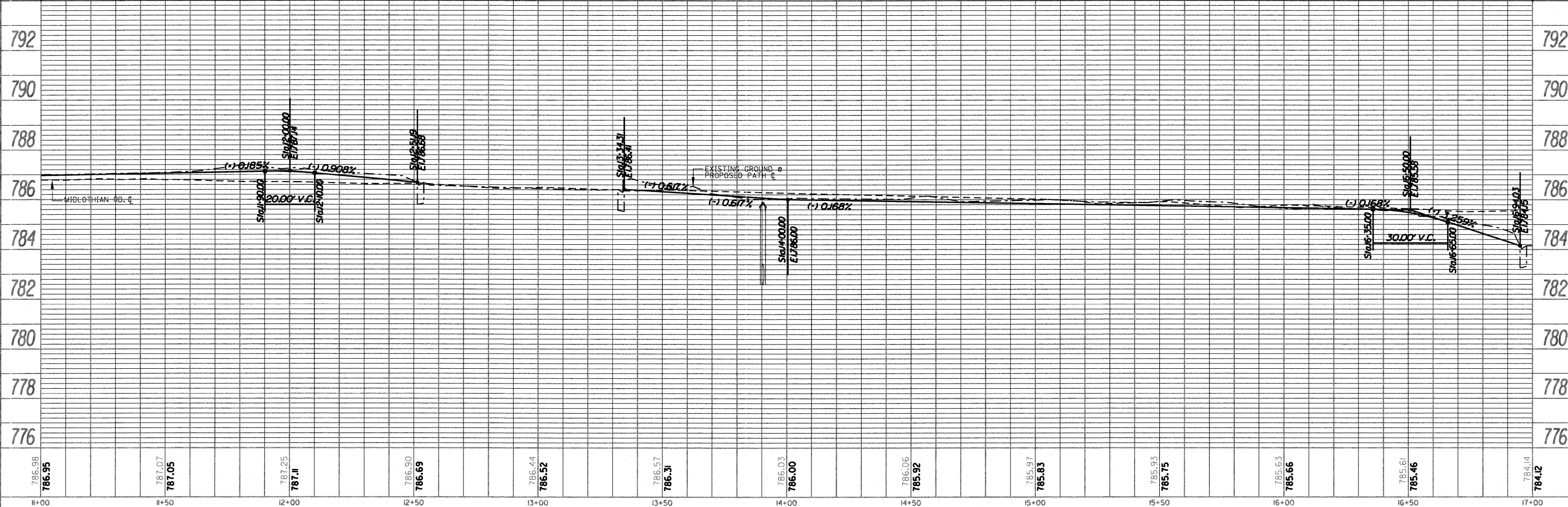
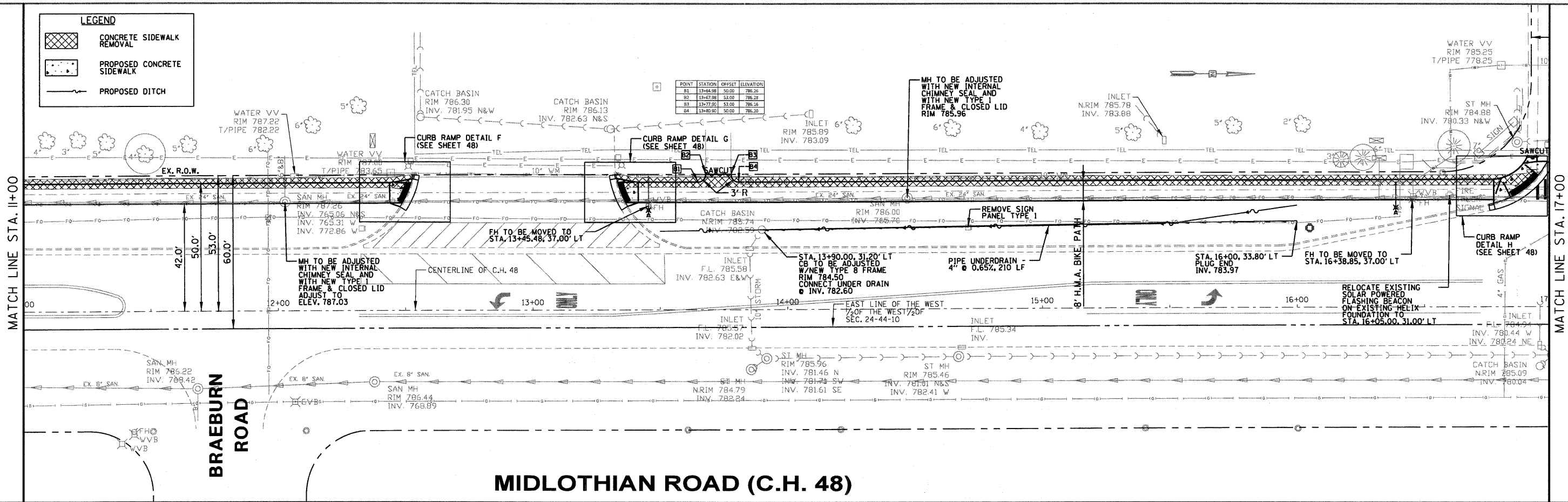


FILE NAME	USER NAME - BUSERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD PLAN & PROFILE			F.A.U. RTE. 2605	SECTION 09-0071-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 14
FILE#S	PLOT SCALE - 8/SCALE	DRAWN -	REVISED -		SCALE: 1" = 20'			SHEET NO. 1 OF 12 SHEETS			CONTRACT NO. 63619	
	PLOT DATE - 8/DATE	CHECKED -	REVISED -		STA. 0+00 TO STA. 5+00			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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	NOTE BOOK NO.	
	CADD FILE NAME	

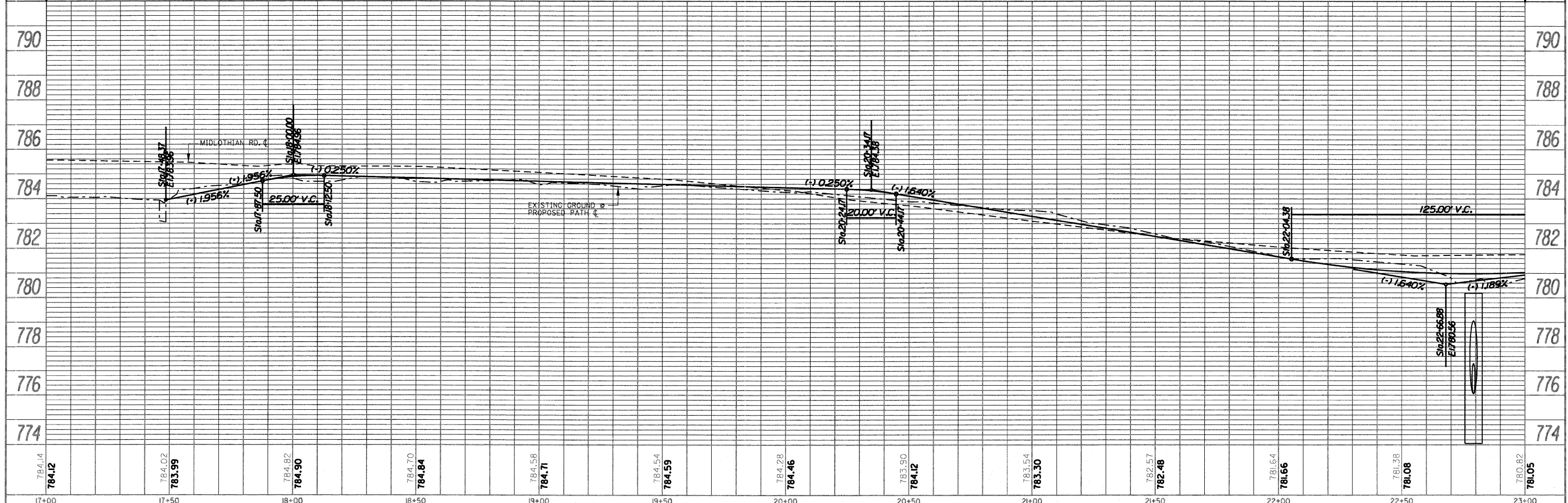
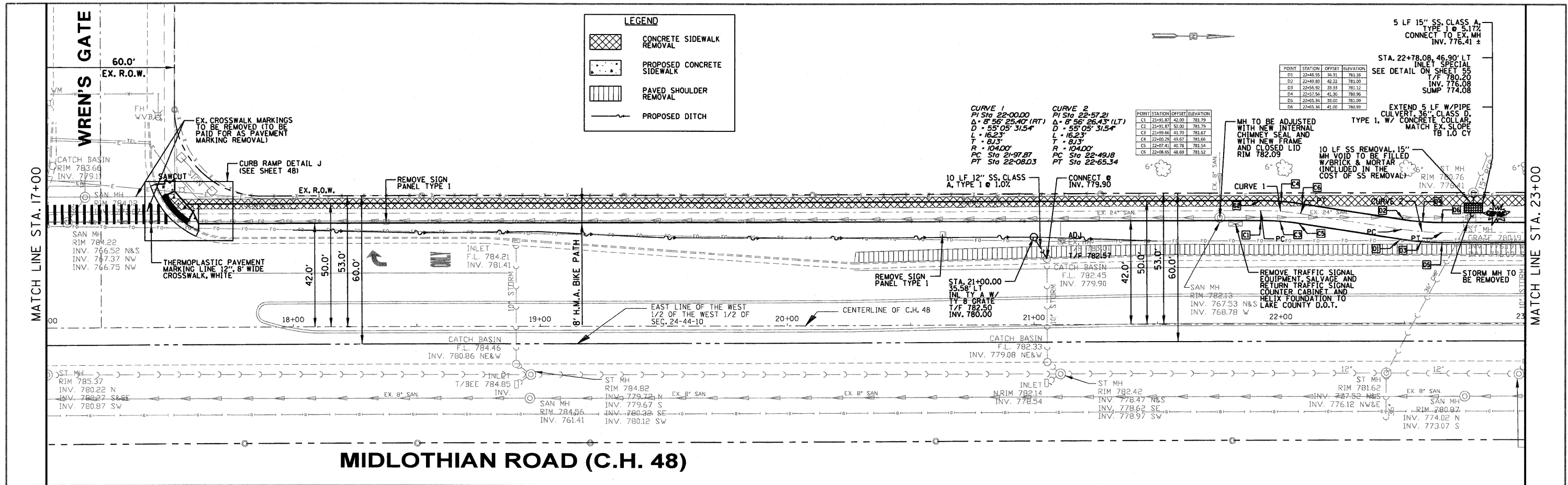
LEGEND	
	CONCRETE SIDEWALK REMOVAL
	PROPOSED CONCRETE SIDEWALK
	PROPOSED DITCH



FILE NAME	USER NAME - #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD PLAN & PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

DATE	
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REVIEWED	
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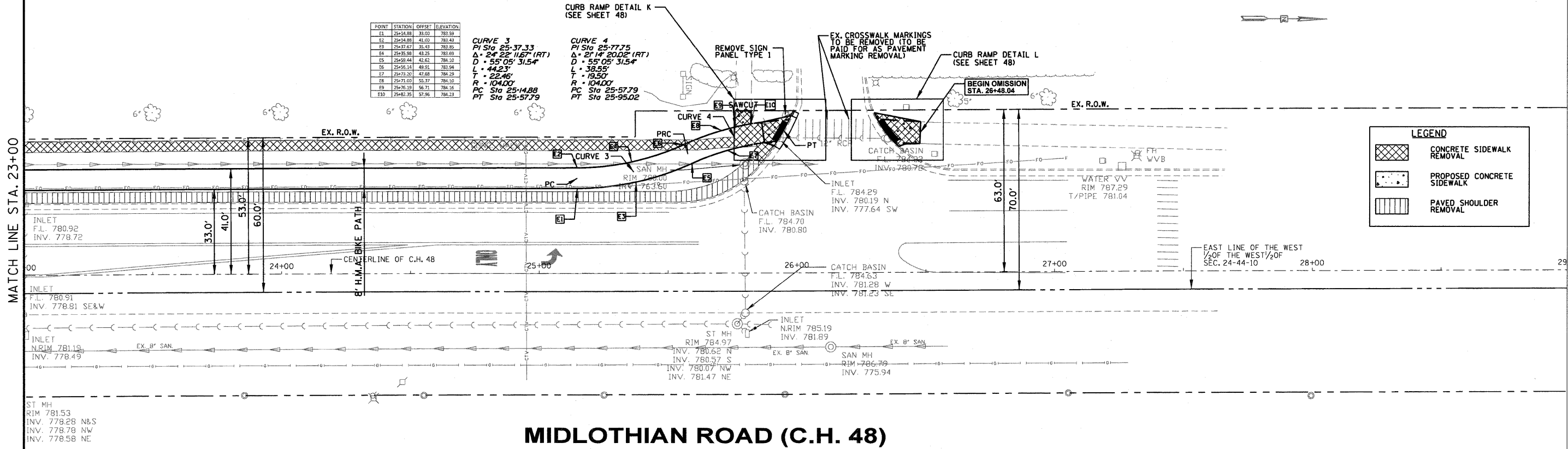
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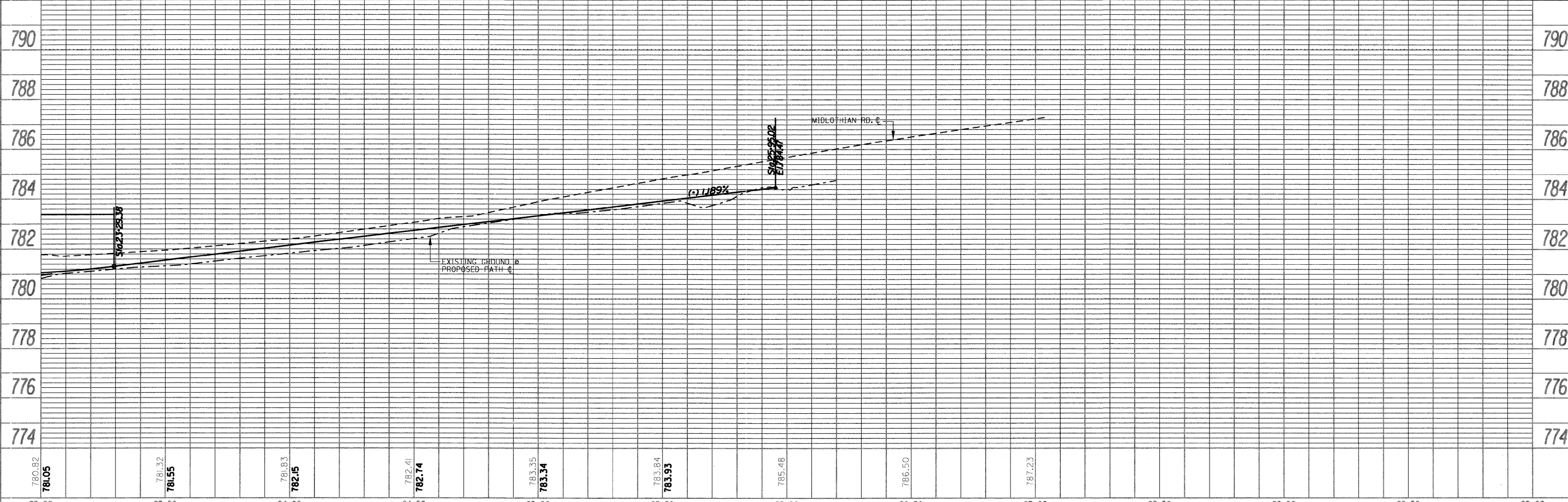
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\$FILES	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -			2605	09-0071-13-BT	LAKE	59	17	
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -			CONTRACT NO. 63619					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

DATE	
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PLAN	SURVEYED
	PLOTTED
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	RECORD
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PROFILE	SURVEYED
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	GRADES
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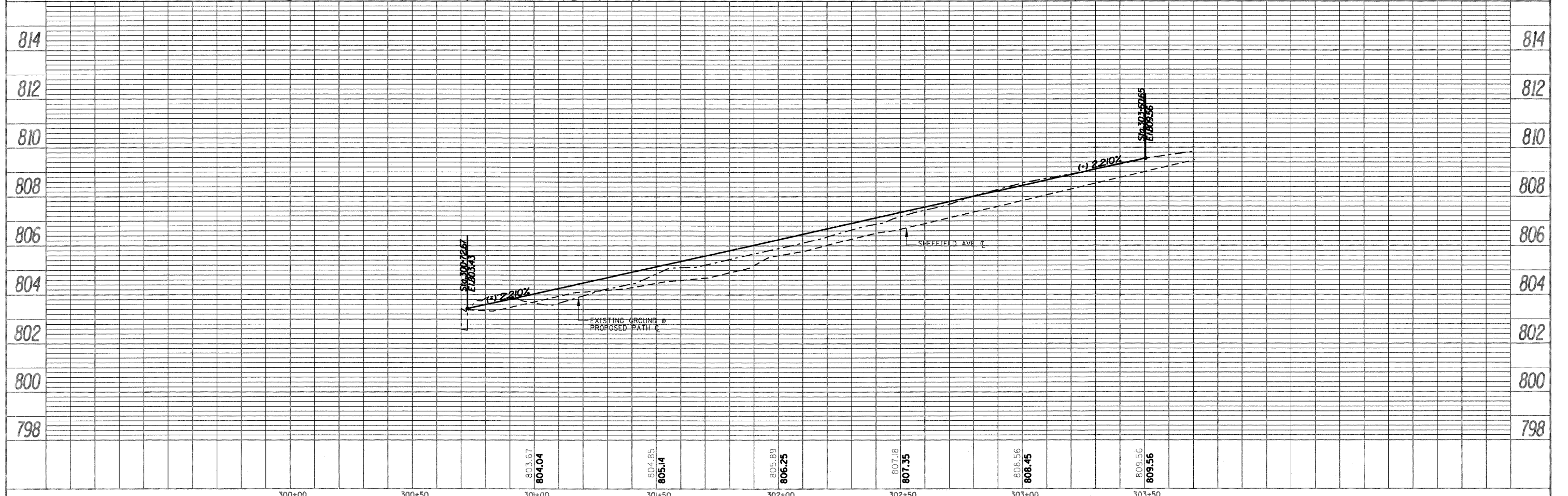
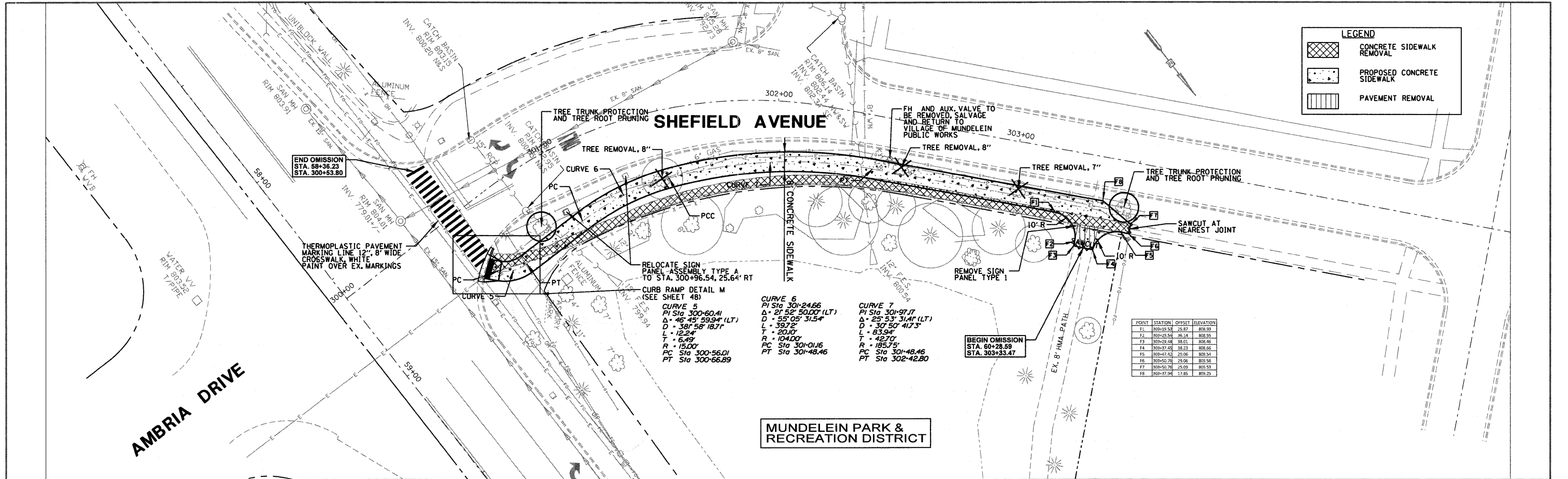
MIDLOTHIAN ROAD (C.H. 48)



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MIDLOTHIAN ROAD PLAN & PROFILE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILE\$	*\$USER\$	-	-	SCALE: 1" = 20'		SHEET NO. 5 OF 12 SHEETS		2605	09-00171-13-BT	LAKE	59	18
	PLOT SCALE	CHECKED	REVISED	STA. 23+00		TO STA. 29+00		CONTRACT NO. 63619				
	PLOT DATE	DATE	REVISED					ILLINOIS FED. AID PROJECT				

DATE:		
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REVISIONS:		
NO. 1	DATE	DESCRIPTION

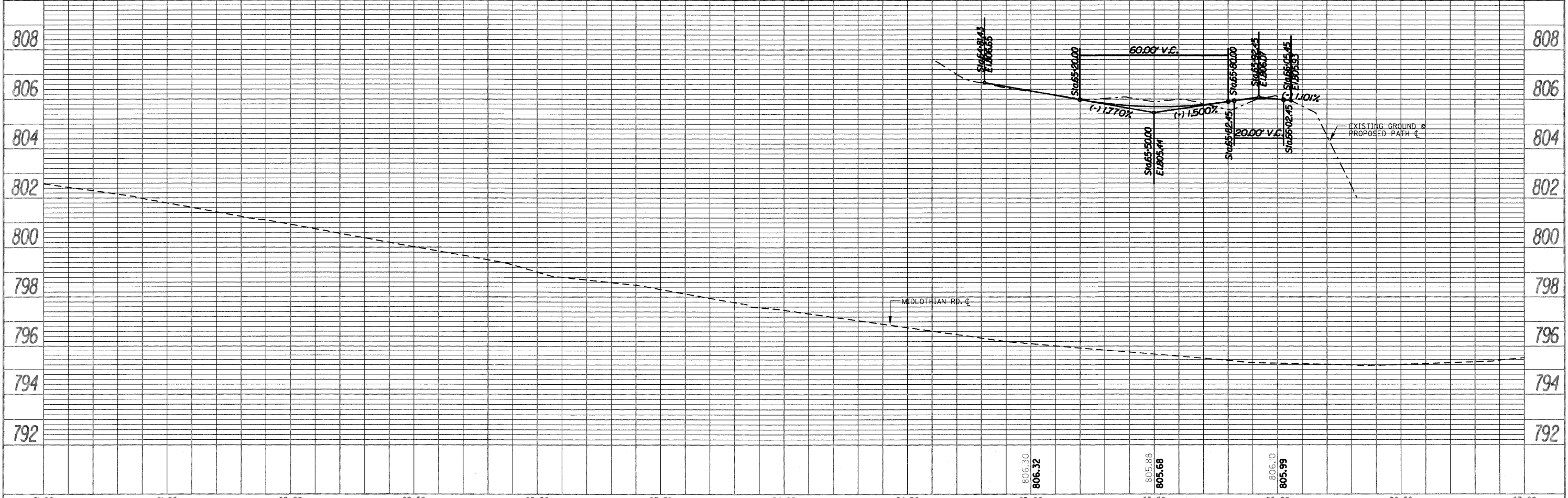
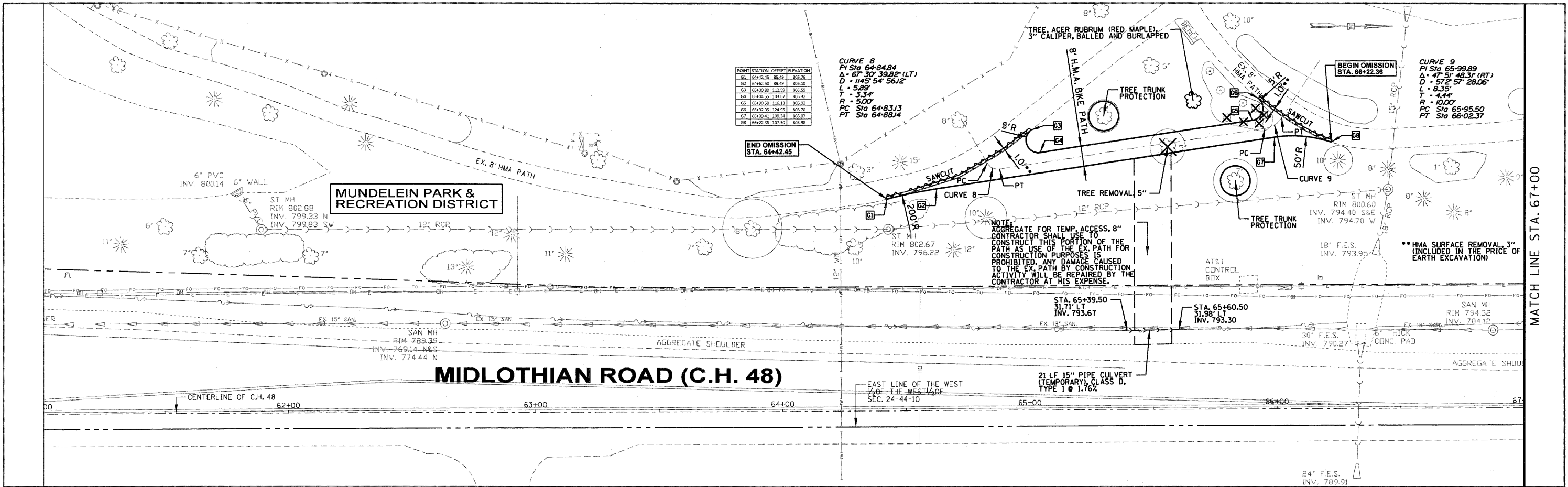
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BY:		
REVISIONS:		
NO. 1	DATE	DESCRIPTION



FILE NAME - \$FRL\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SHEFFIELD AVENUE PLAN & PROFILE	F.A.U. RTE. 2605 SECTION 09-00171-13-BT COUNTY LAKE TOTAL SHEETS 59 SHEET NO. 19 CONTRACT NO. 63619 ILLINOIS FED. AID PROJECT
	PLOT SCALE - \$SCALE\$	CHECKED -	REVISED -		
	PLOT DATE - \$DATE\$	DATE -	REVISED -		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	NOTE BOOK NO.	
	CADD FILE NAME	



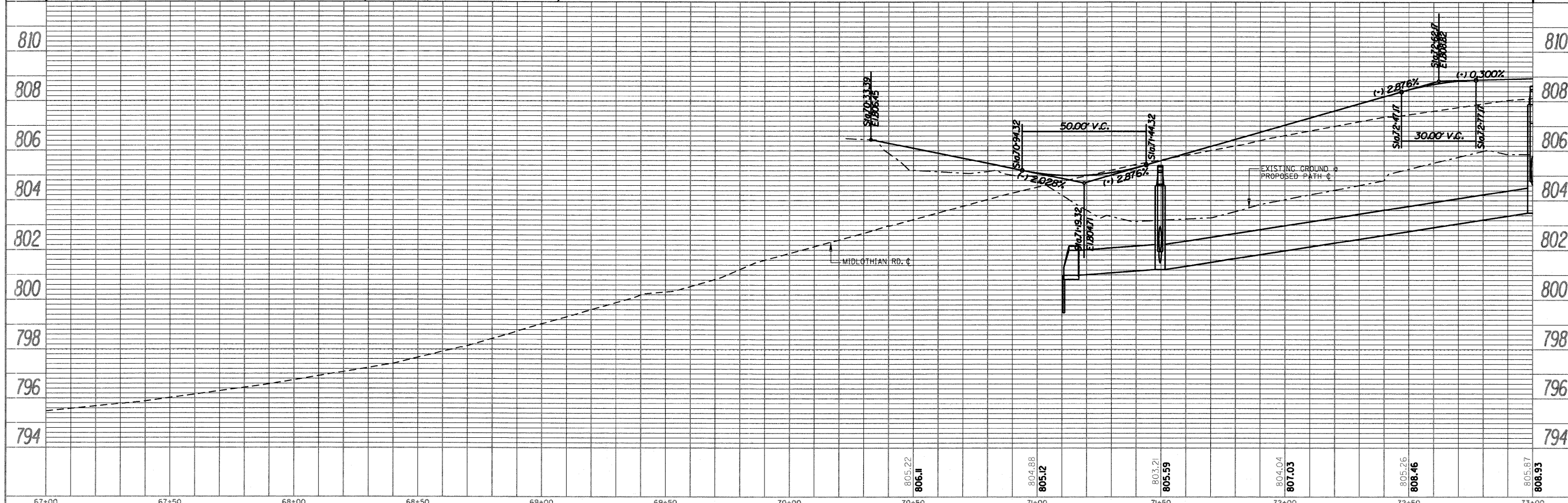
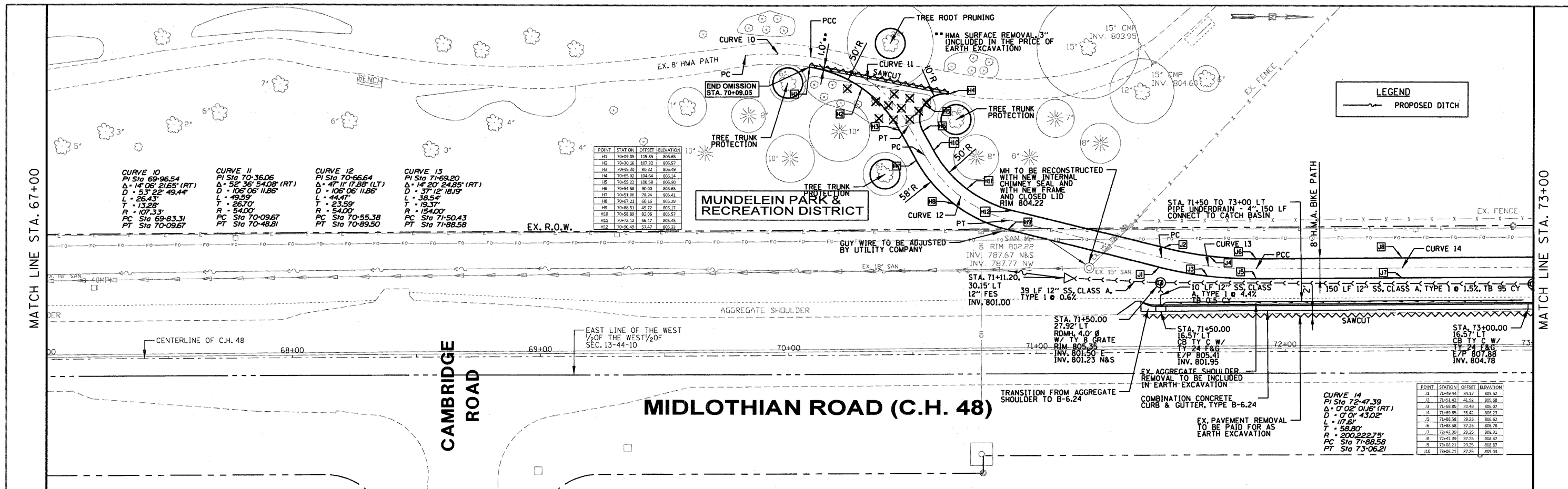
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\$FILE#		DRAWN -	REVISED -			2605	09-00171-13-BT	LAKE	59	20	
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	PLOT DATE - #DATE#	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

MATCH LINE STA. 67+00

SCALE: 1" = 20' SHEET NO. 7 OF 12 SHEETS STA. 61+00 TO STA. 67+00

DATE	
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FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD PLAN & PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILE\$	\$USER\$	DRAWN	REVISED		SCALE: 1" = 20'	2605	09-0071-I3-BT	LAKE	59	21
	PLOT SCALE	CHECKED	REVISED		SHEET NO. 8 OF 12 SHEETS					
	PLOT DATE	DATE	REVISED		STA. 67+00 TO STA. 73+00					
									ILLINOIS FED. AID PROJECT CONTRACT NO. 63619	

DATE	
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PLANNED	
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ALIGNED	
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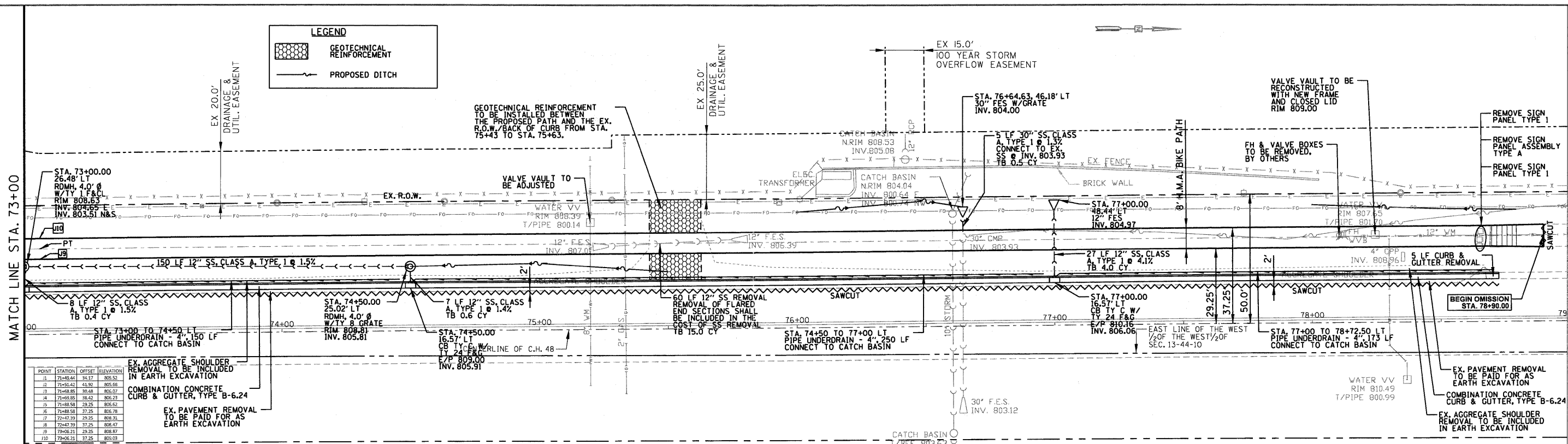
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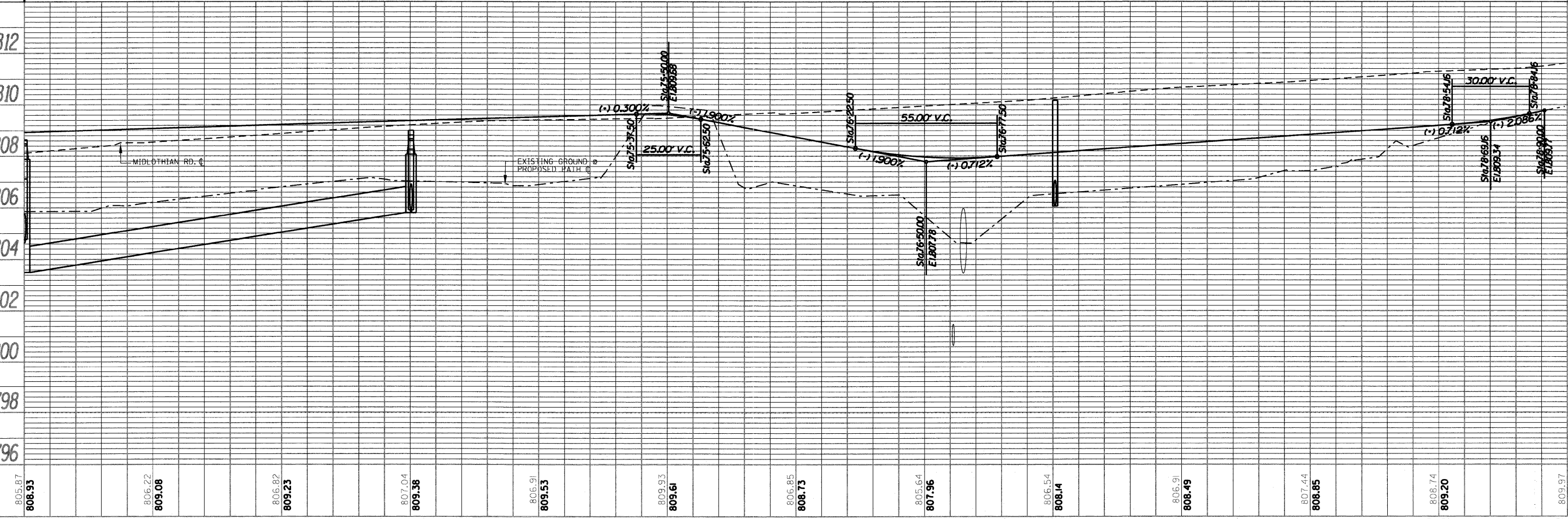
LEGEND

GEOTECHNICAL REINFORCEMENT

PROPOSED DITCH



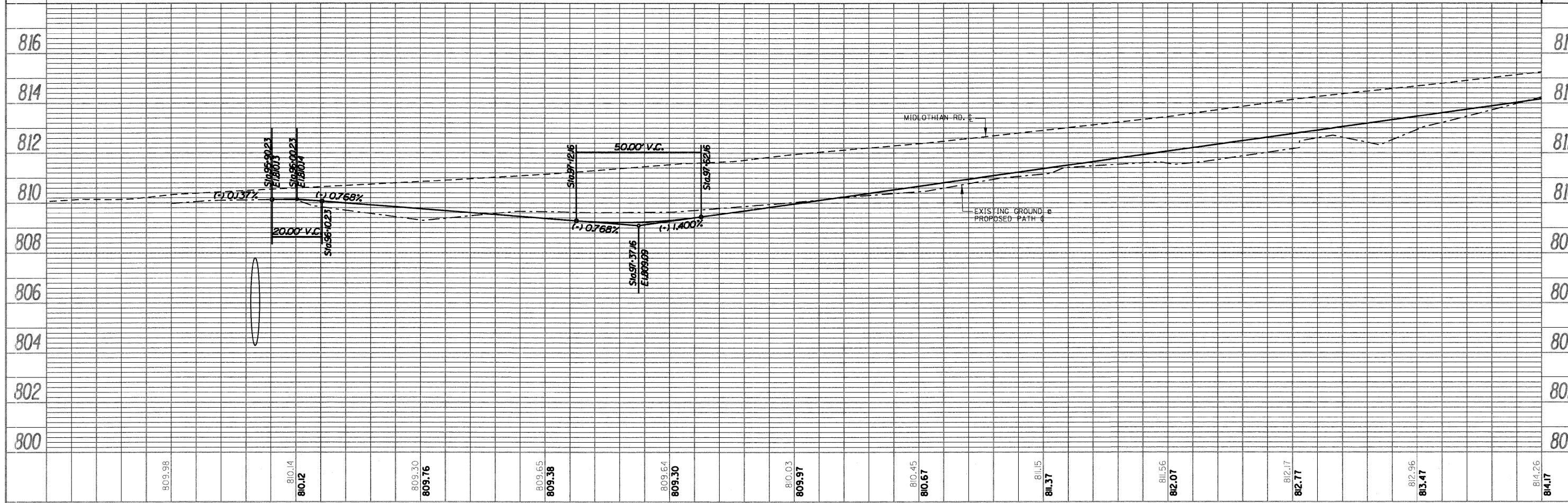
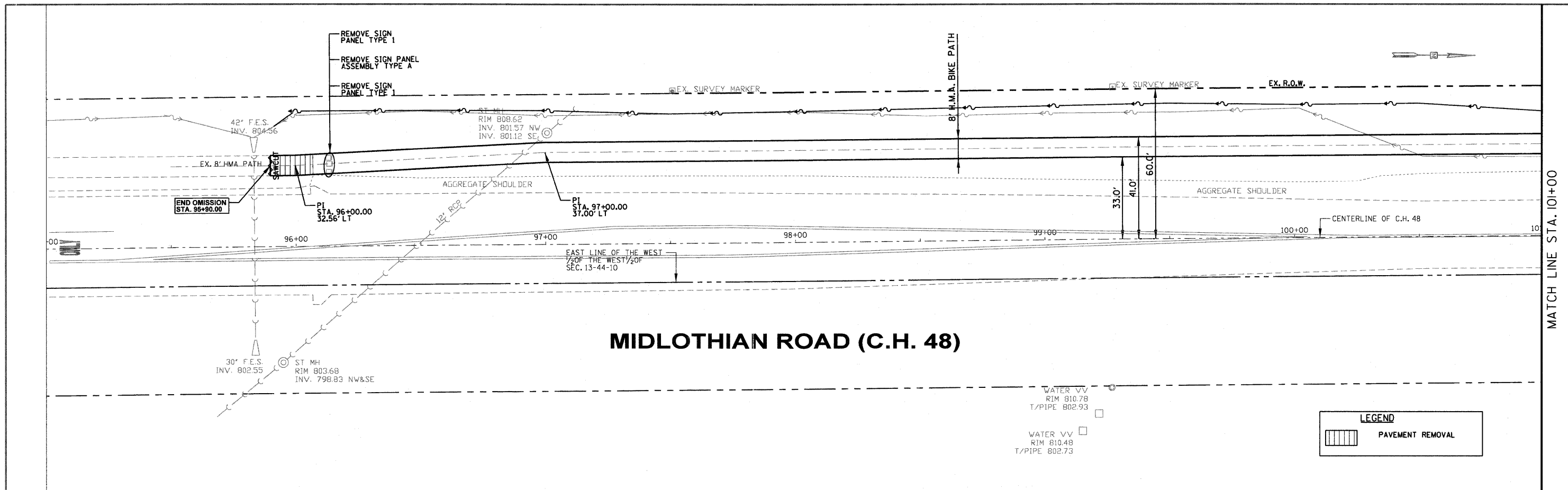
MIDLOTHIAN ROAD (C.H. 48)



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MIDLOTHIAN ROAD PLAN & PROFILE		F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NO.						SCALE: 1" = 20'		2605	09-0071-13-BT	LAKE	59	22
						SHEET NO. 9 OF 12 SHEETS					CONTRACT NO. 63619	
						STA. 73+00 TO STA. 79+00					ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
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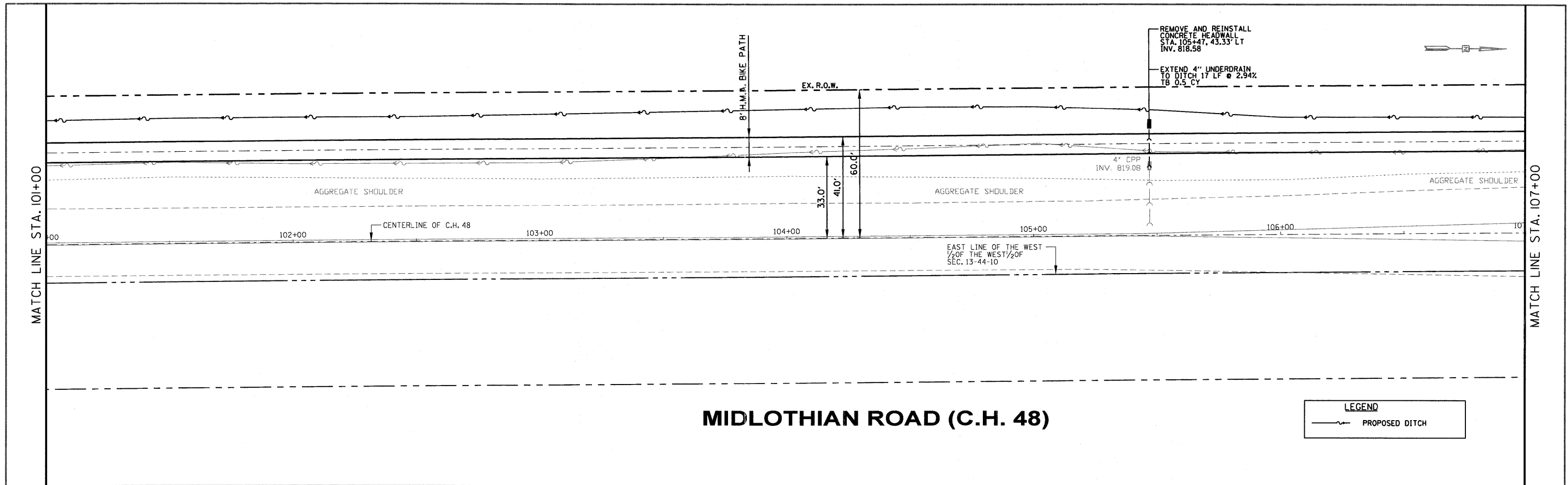
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	PLOTTED	
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	BY	
	NO.	



FILE NAME	USER NAME - *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD PLAN & PROFILE SCALE: 1" = 20' SHEET NO. 10 OF 12 SHEETS STA. 95+00 TO STA. 101+00	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$	PLOT SCALE - *SCALE*	DRAWN -	REVISED -			2605	09-00171-13-BT	LAKE	59	23	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

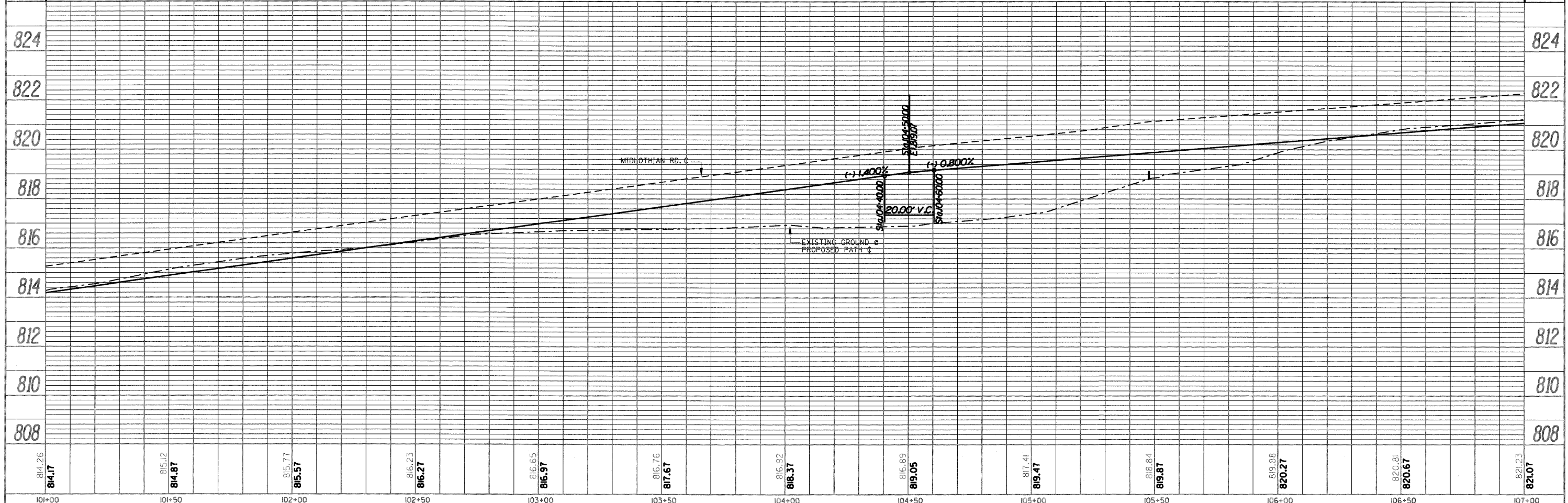
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	PLOTTED	BY
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	NOTE BOOK	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
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MIDLOTHIAN ROAD (C.H. 48)

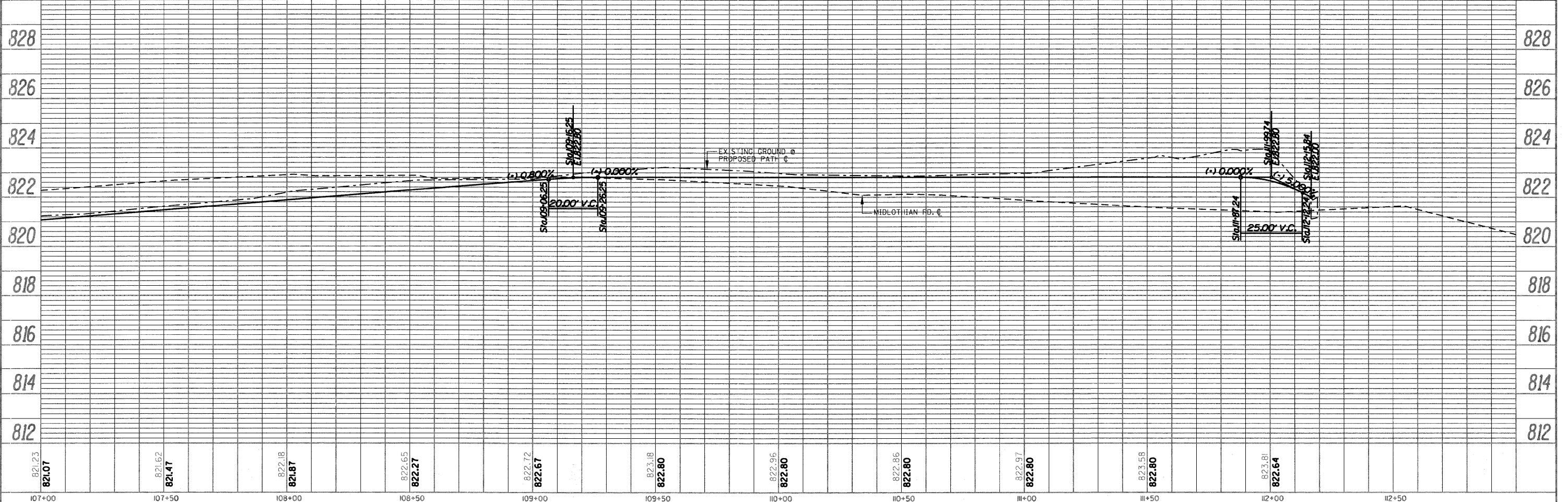
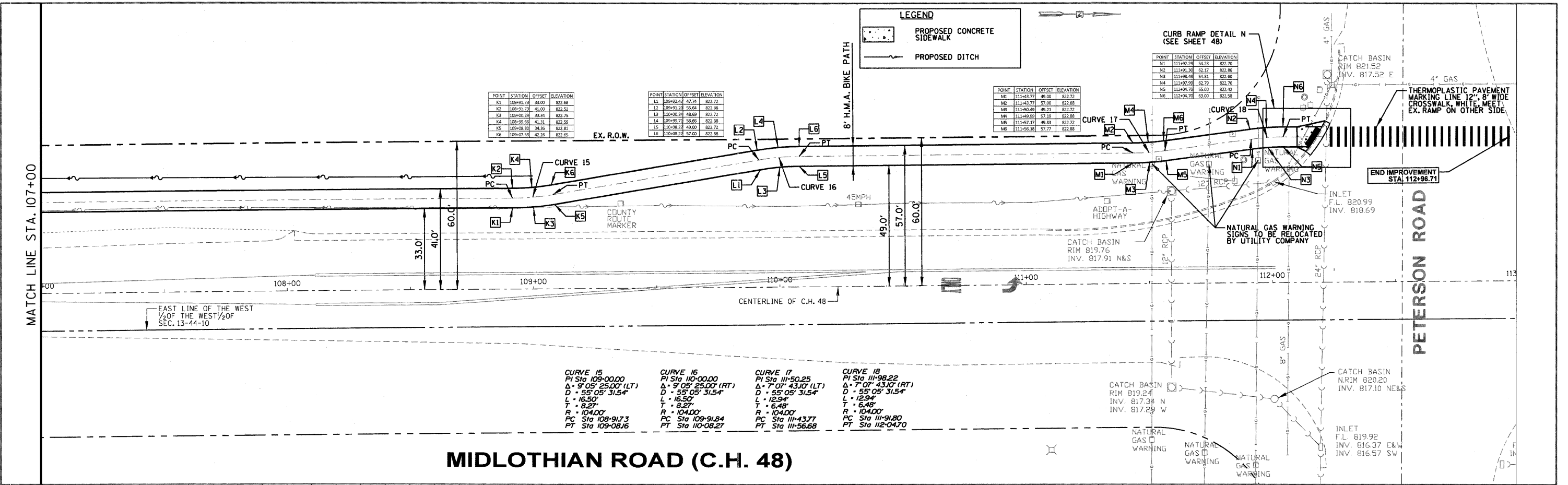
LEGEND
 PROPOSED DITCH



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD PLAN & PROFILE	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILE #		DRAWN	REVISED			2605	09-00171-13-BT	LAKE	59	24	
		CHECKED	REVISED			CONTRACT NO. 63619					
		DATE	REVISED			ILLINOIS FED. AID PROJECT					

DATE	
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NOTE BOOK	
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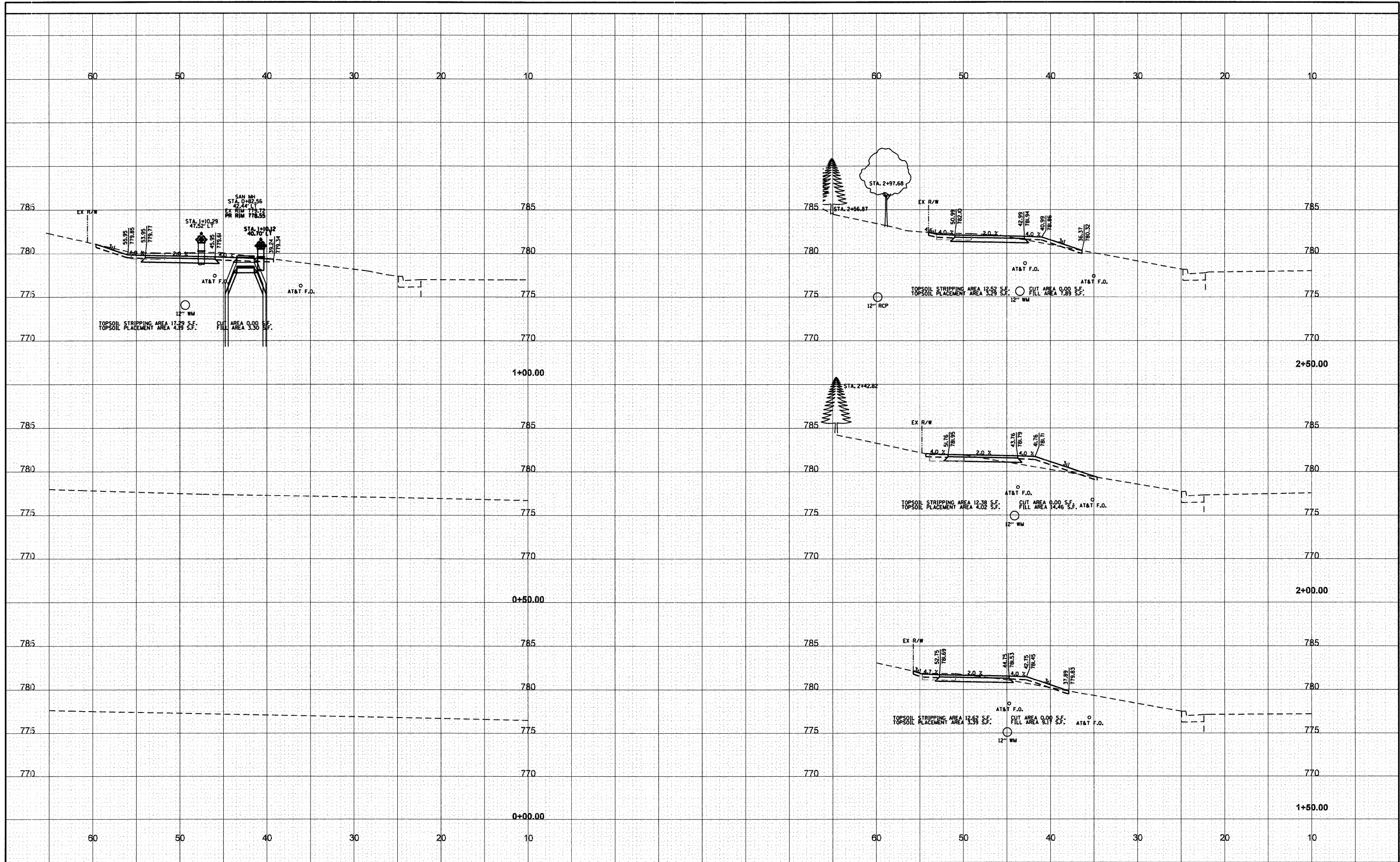
DATE	
BY	
REVIEWED	
PLANNED	
GRADES	
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NOTE BOOK	
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FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		F.A.U. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#		DRAWN	REVISED			2605	09-0071-13-BT	LAKE	59	25	
		CHECKED	REVISED			MIDLOTHIAN ROAD PLAN & PROFILE		CONTRACT NO. 63619			
		DATE	REVISED			SCALE: 1" = 20'	SHEET NO. 12 OF 12 SHEETS	STA. 107+00 TO STA. 112+50	ILLINOIS FED. AID PROJECT		

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
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BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
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FILE NAME -
\$FILE\$

USER NAME - \$USER\$
PLOT SCALE - \$SCALE\$
PLOT DATE - \$DATE\$

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

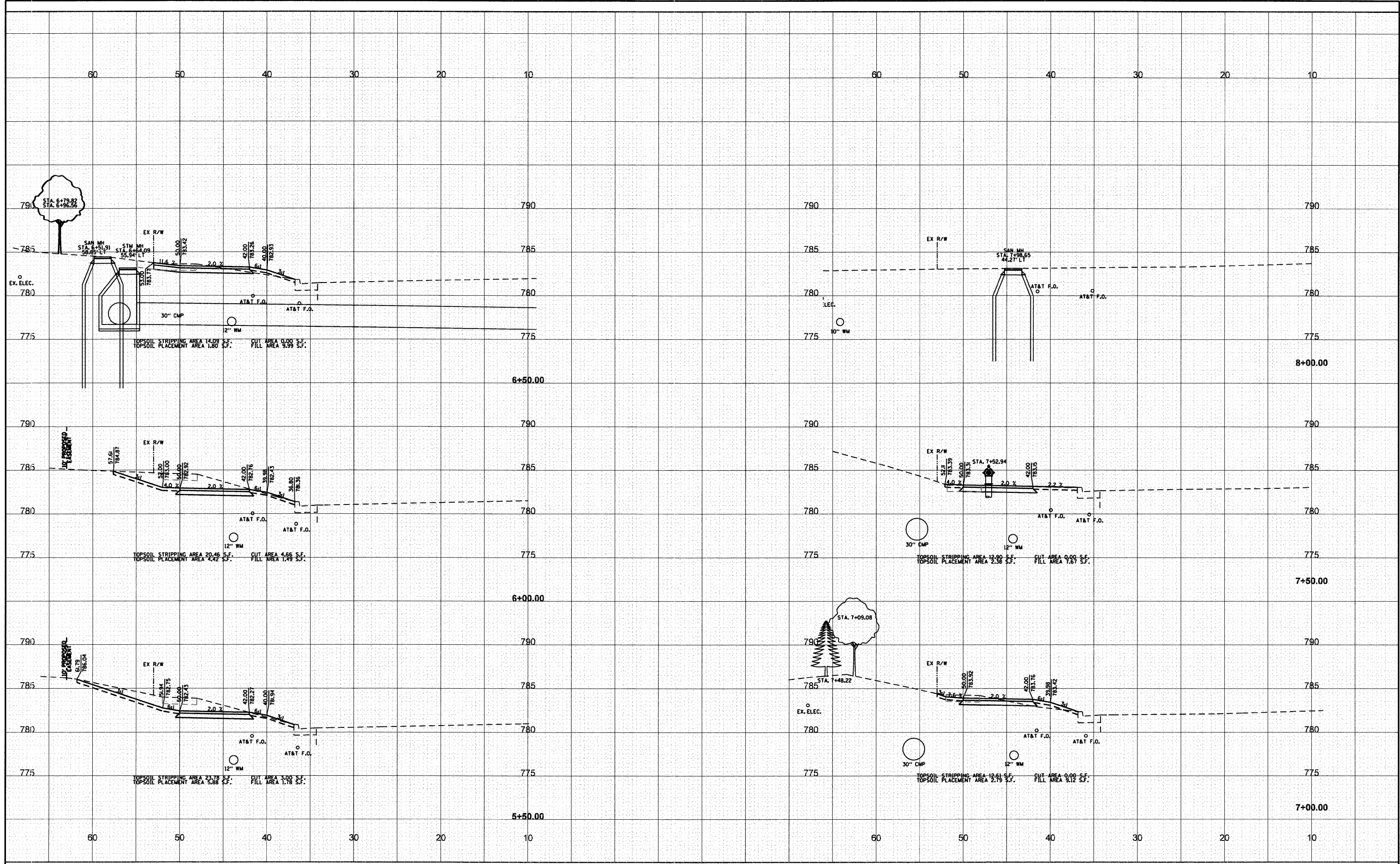
MIDLOTHIAN ROAD CROSS SECTIONS

SCALE: 1" = 5'
SHEET NO. 1 OF 22 SHEETS
STA. 0+00.00 TO STA. 2+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	09-00171-13-BT	LAKE	59	26
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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BY	DATE
SURVEYED	
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TEMPLATE	
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FILE NAME - \$FILE\$.
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

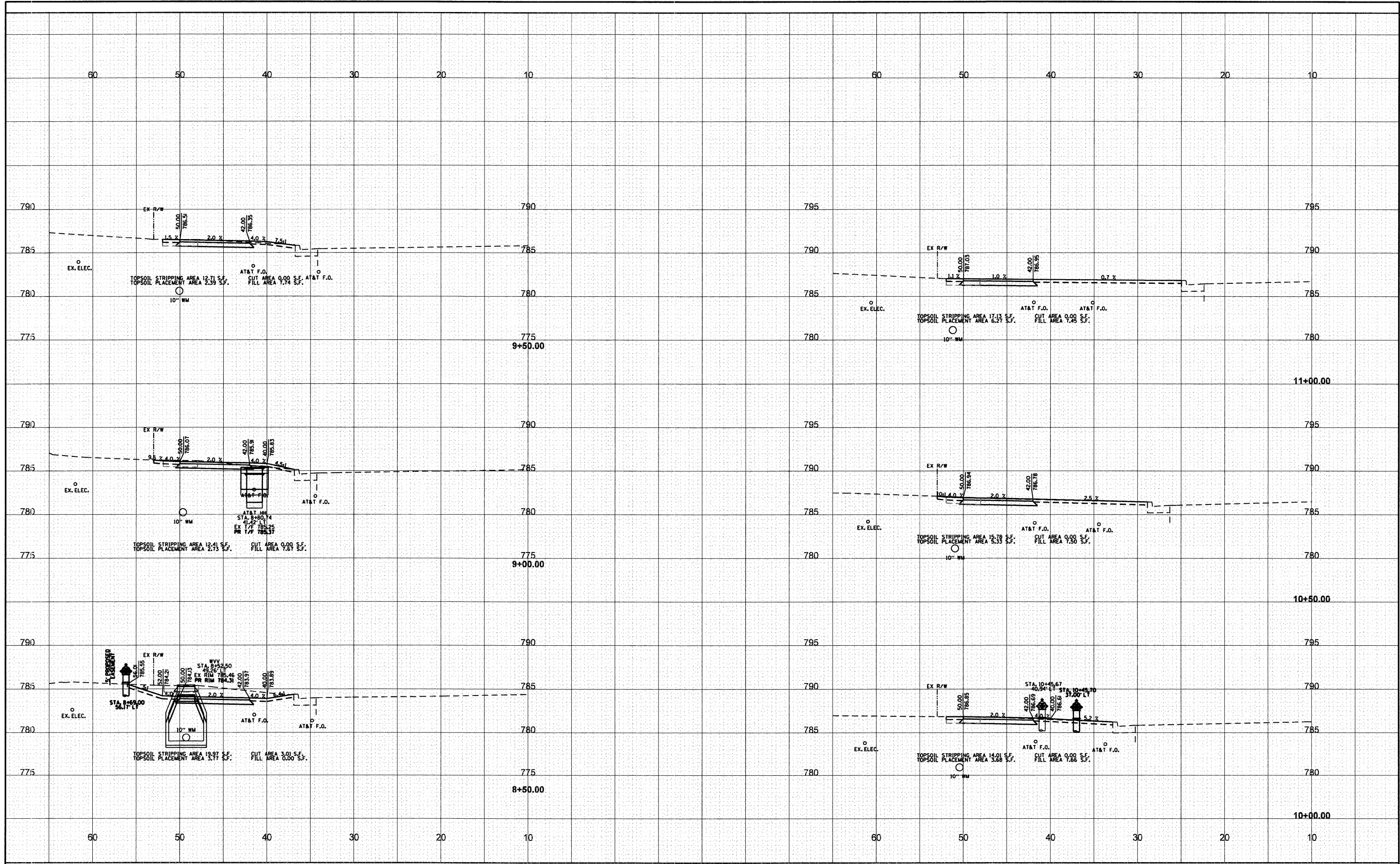
MIDLOTHIAN ROAD CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 3 OF 22 SHEETS
 STA. 5+50.00 TO STA. 8+00.00

F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 28
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

BY	DATE

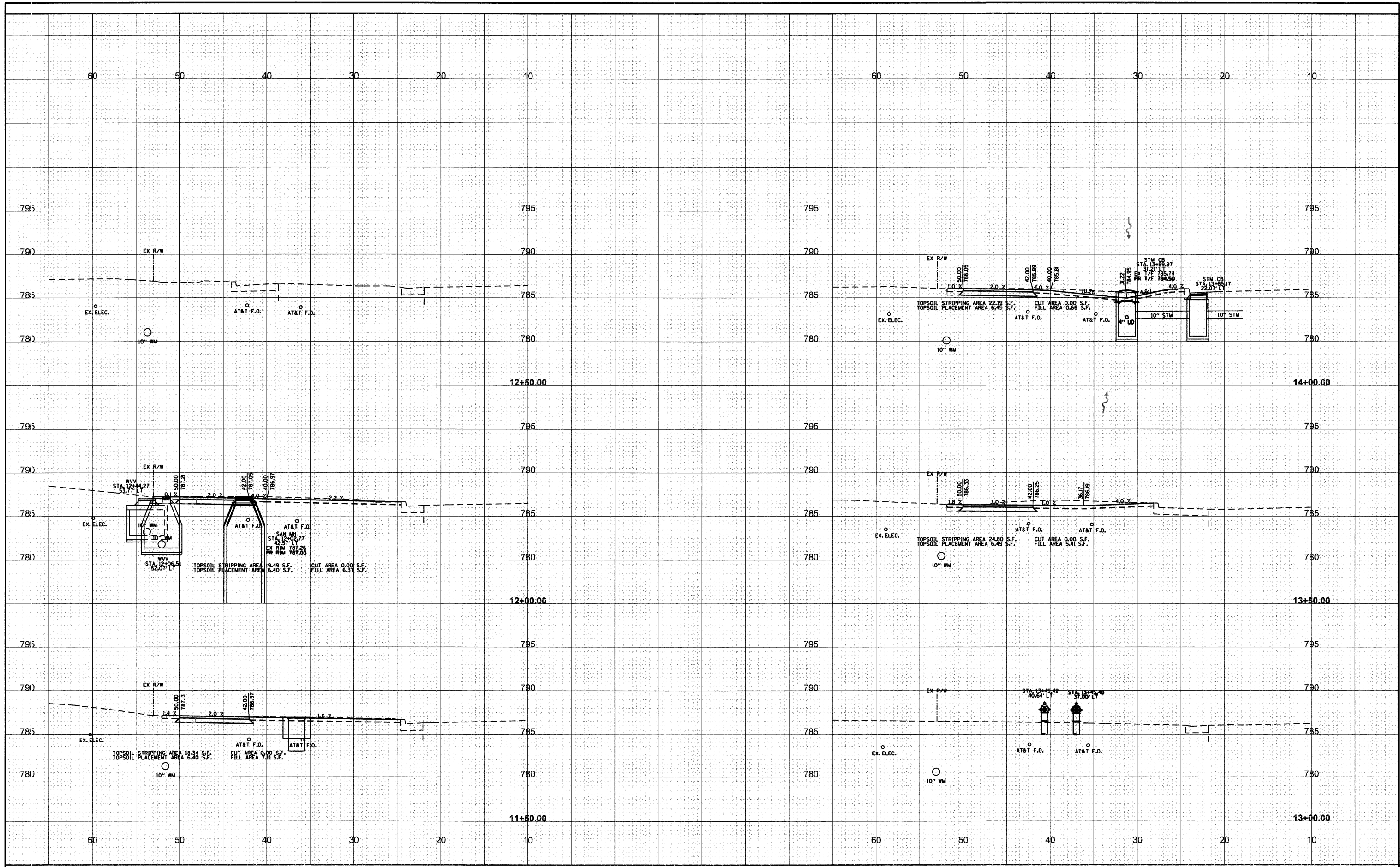
BY	DATE

ORIGINAL SURVEY	SURVEYED



FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED
 SURVEYED PLOTTED TEMPLATE AREAS CHECKED
 BY DATE

ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED
 SURVEYED PLOTTED TEMPLATE AREAS CHECKED
 BY DATE



FILE NAME - \$FILEL\$
 USER NAME - \$USER\$

PLOT SCALE - \$SCALE\$
 PLOT DATE - \$DATE\$

DESIGNED -
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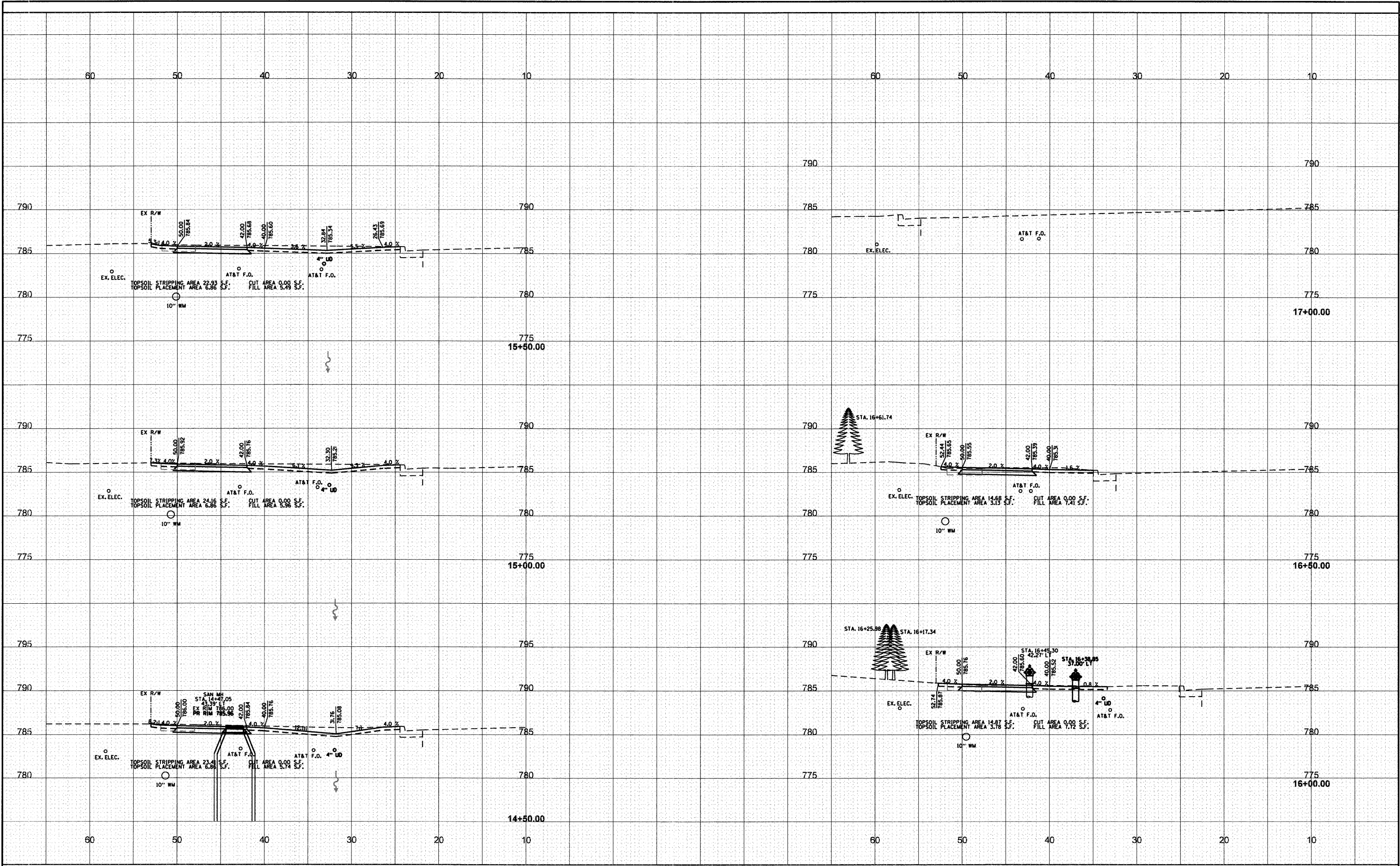
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MIDLOTHIAN ROAD CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 5 OF 22 SHEETS
 STA. 11+50.00 TO STA. 14+00.00

F.A.U. RTE. 2605
 SECTION 09-0071-13-BT
 COUNTY LAKE
 TOTAL SHEETS 59
 SHEET NO. 30
 CONTRACT NO. 63619
 ILLINOIS FED. AID PROJECT

BY	DATE

BY	DATE



FILE NAME - \$FILEL\$

USER NAME - \$USER\$

PLOT SCALE - \$SCALE\$

PLOT DATE - \$DATE\$

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MIDLOTHIAN ROAD CROSS SECTIONS

SCALE: 1" = 5'

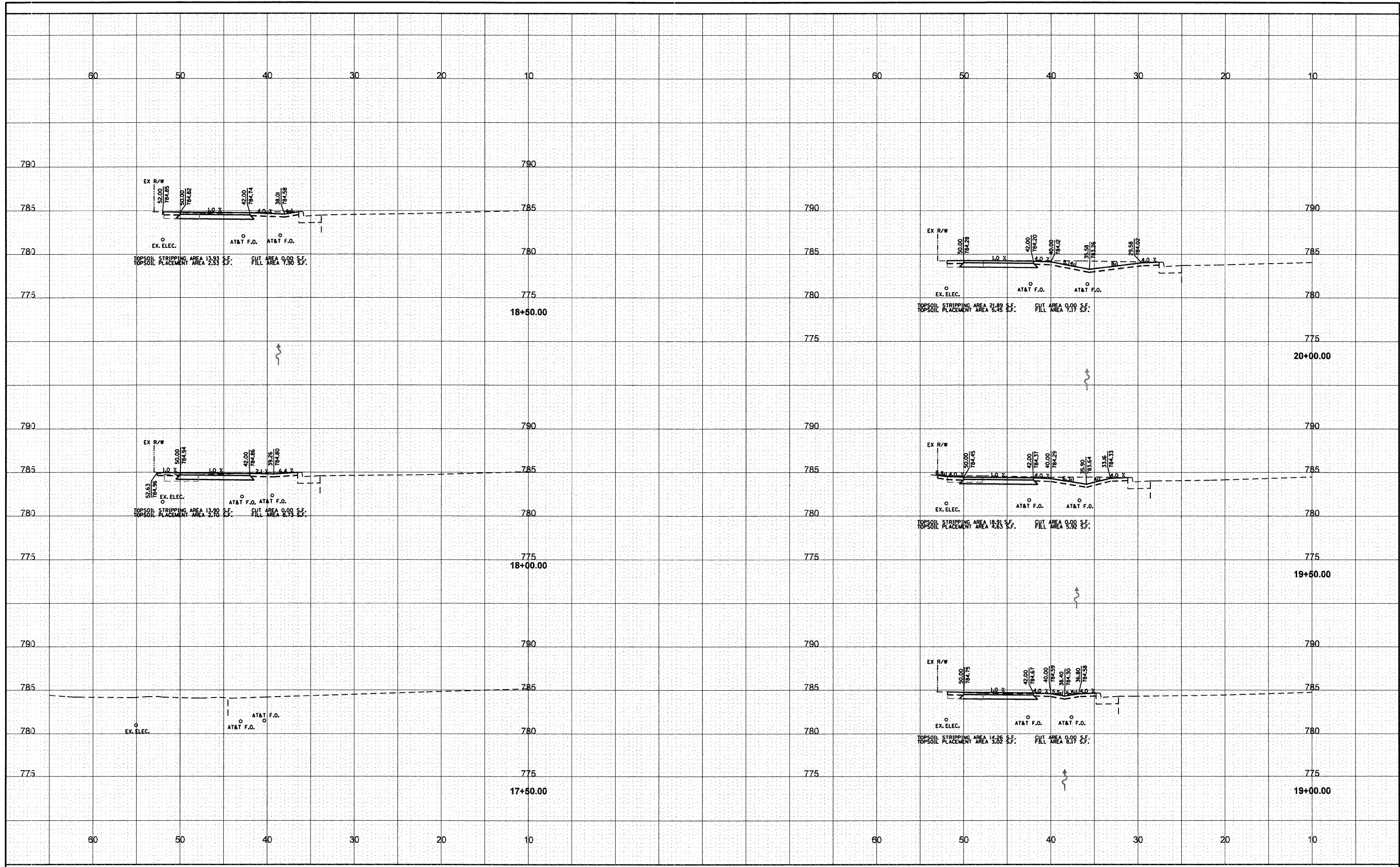
SHEET NO. 6 OF 22 SHEETS

STA. 14+50.00 TO STA. 17+00.00

F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 31
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

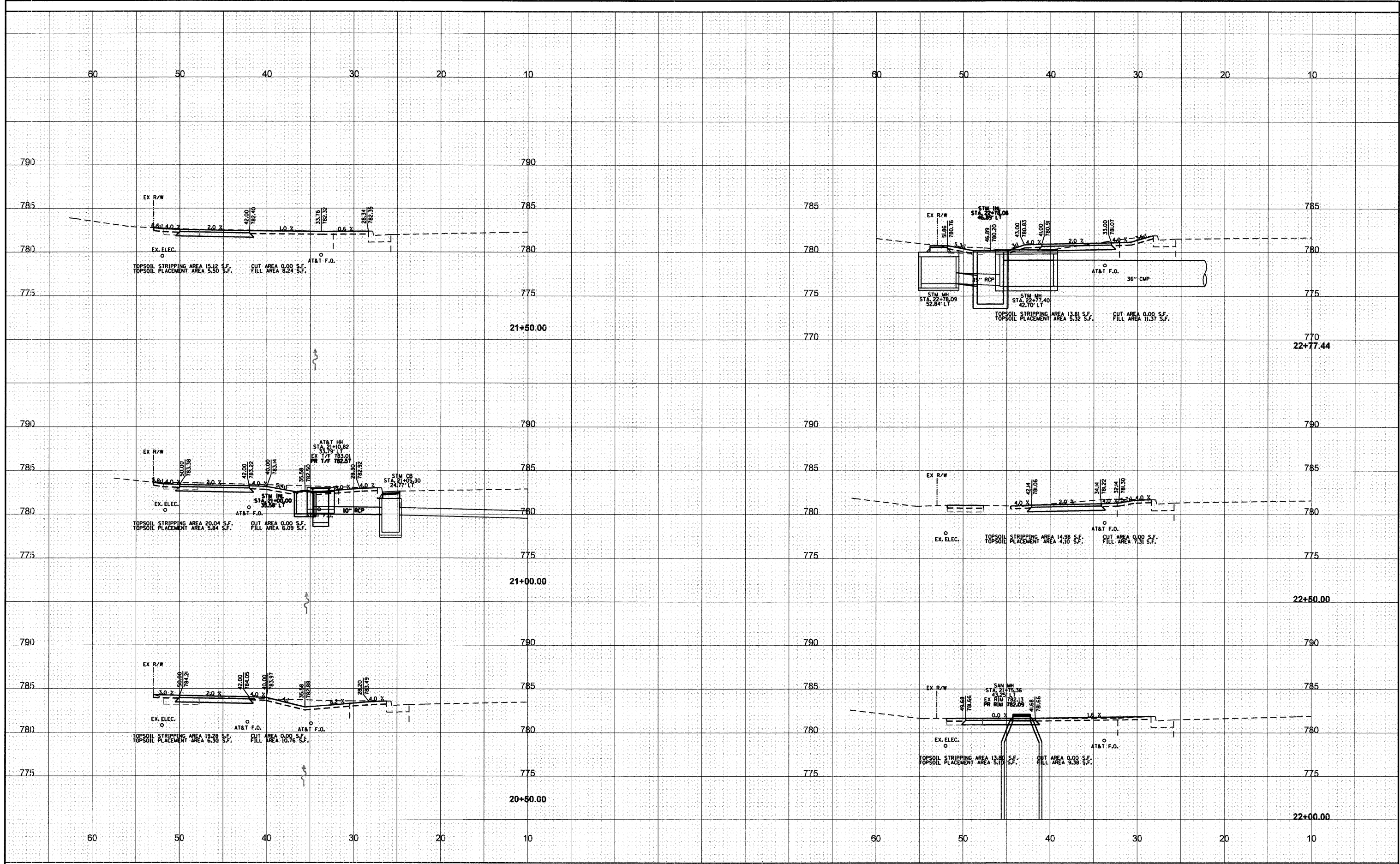
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME -	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILES	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -			2605	09-00171-13-BT	LAKE	59	32	
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -			SCALE: 1" = 5' SHEET NO. 7 OF 22 SHEETS STA. 17+50.00 TO STA. 20+00.00 CONTRACT NO. 63619					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

BY	DATE
SURVEYED	
PLOTTED	
TEMP. PLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

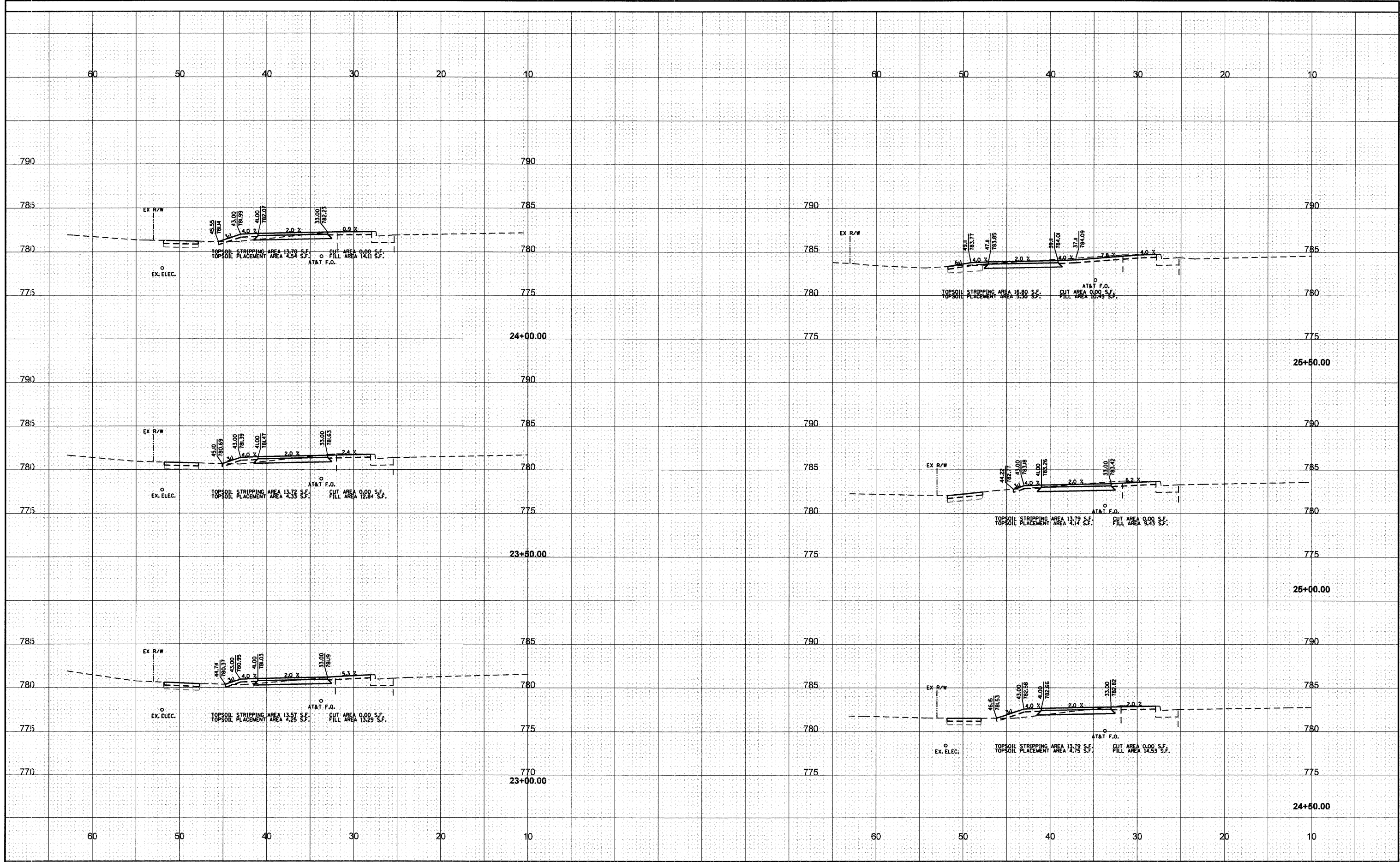
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NOTE BOOK	
AREAS CHECKED	
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PLOT SCALE - \$SCALE\$	CHECKED -	REVISED -	SCALE: 1" = 5'			SHEET NO. 8 OF 22 SHEETS	STA. 20+50.00 TO STA. 22+77.44	CONTRACT NO. 63619		ILLINOIS FED. AID PROJECT		
PLOT DATE - \$DATE\$	DATE -	REVISED -										

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
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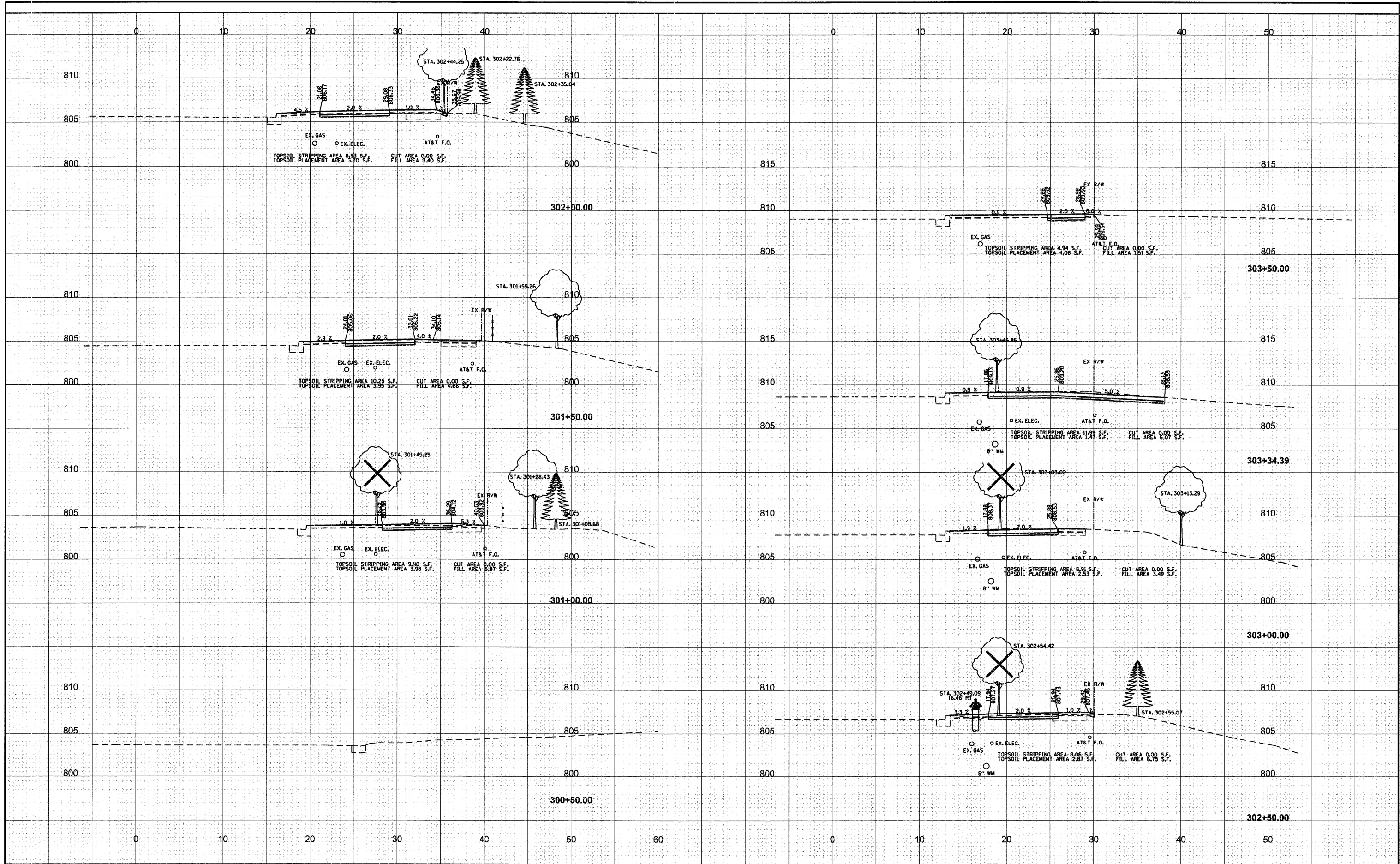
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 SURVEYED _____
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 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



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	PLOT SCALE - \$SCALE\$	CHECKED -	REVISED -			SCALE: 1" = 5'			SHEET NO. 9 OF 22 SHEETS STA. 23+00.00 TO STA. 25+50.00		
	PLOT DATE - \$DATE\$	DATE -	REVISED -			CONTRACT NO. 63619					
						ILLINOIS FED. AID PROJECT					

DATE	
BY	
FINL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

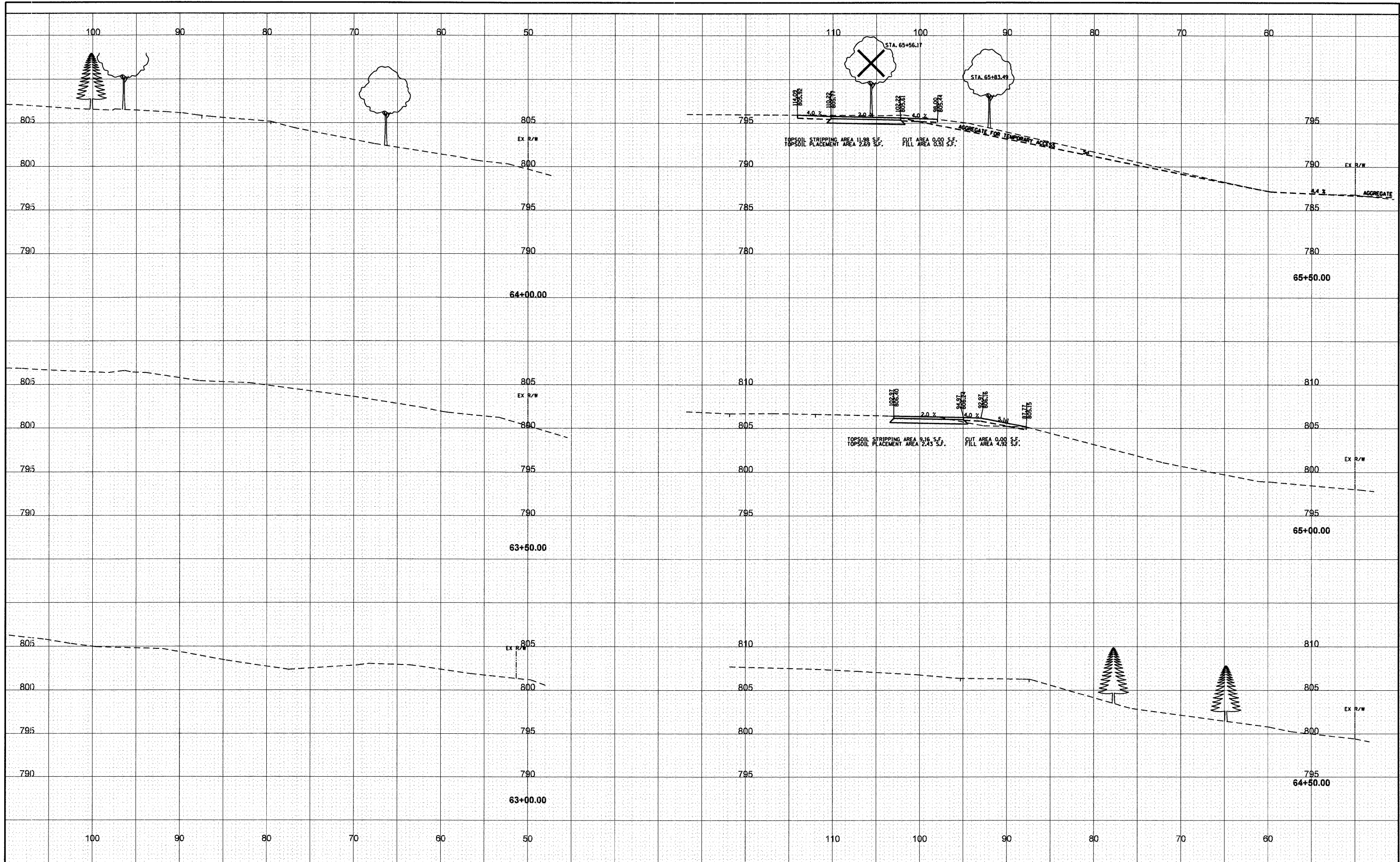
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME - \$FILEL\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEFIELD AVENUE CROSS SECTIONS			F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 35
		DRAWN -	REVISED -		SCALE: 1" = 5'			SHEET NO. 10 OF 22 SHEETS			STA. 300+50.00 TO STA. 303+50.00	
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -		CONTRACT NO. 63619							

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SURVEYED	
PLOTTED	
NOTE BOOK	
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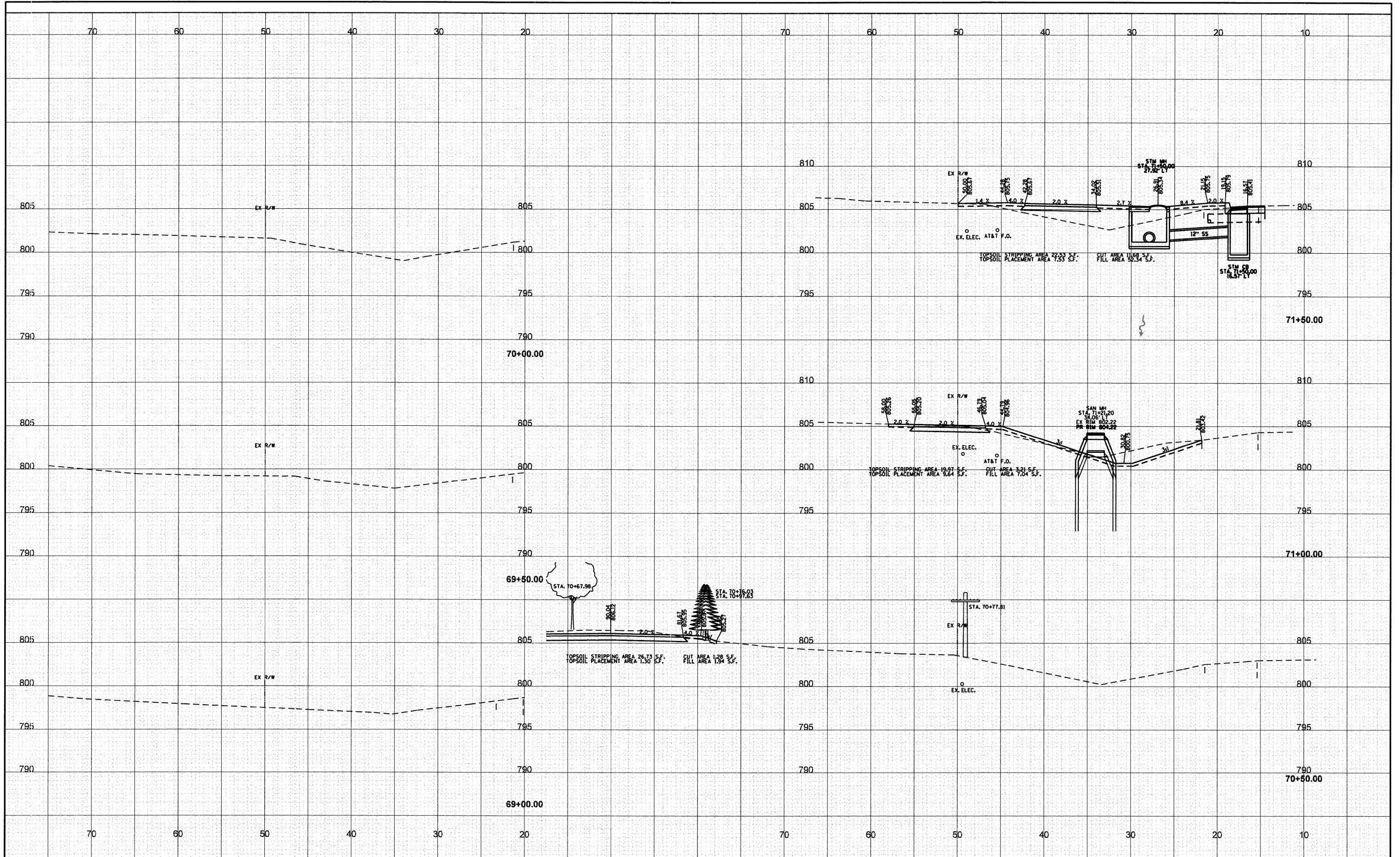
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FILE NAME -	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD CROSS SECTIONS SCALE: 1" = 5' SHEET NO. 11 OF 22 SHEETS STA. 63+00.00 TO STA. 65+50.00	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN -	REVISED -			2605	09-00171-13-BT	LAKE	59	36
		CHECKED -	REVISED -			CONTRACT NO. 63619				
		DATE - \$DATE\$	REVISED -	ILLINOIS FED. AID PROJECT						

DATE
BY
SURVEYED
PLOTTED
NOTE BOOK
NO.

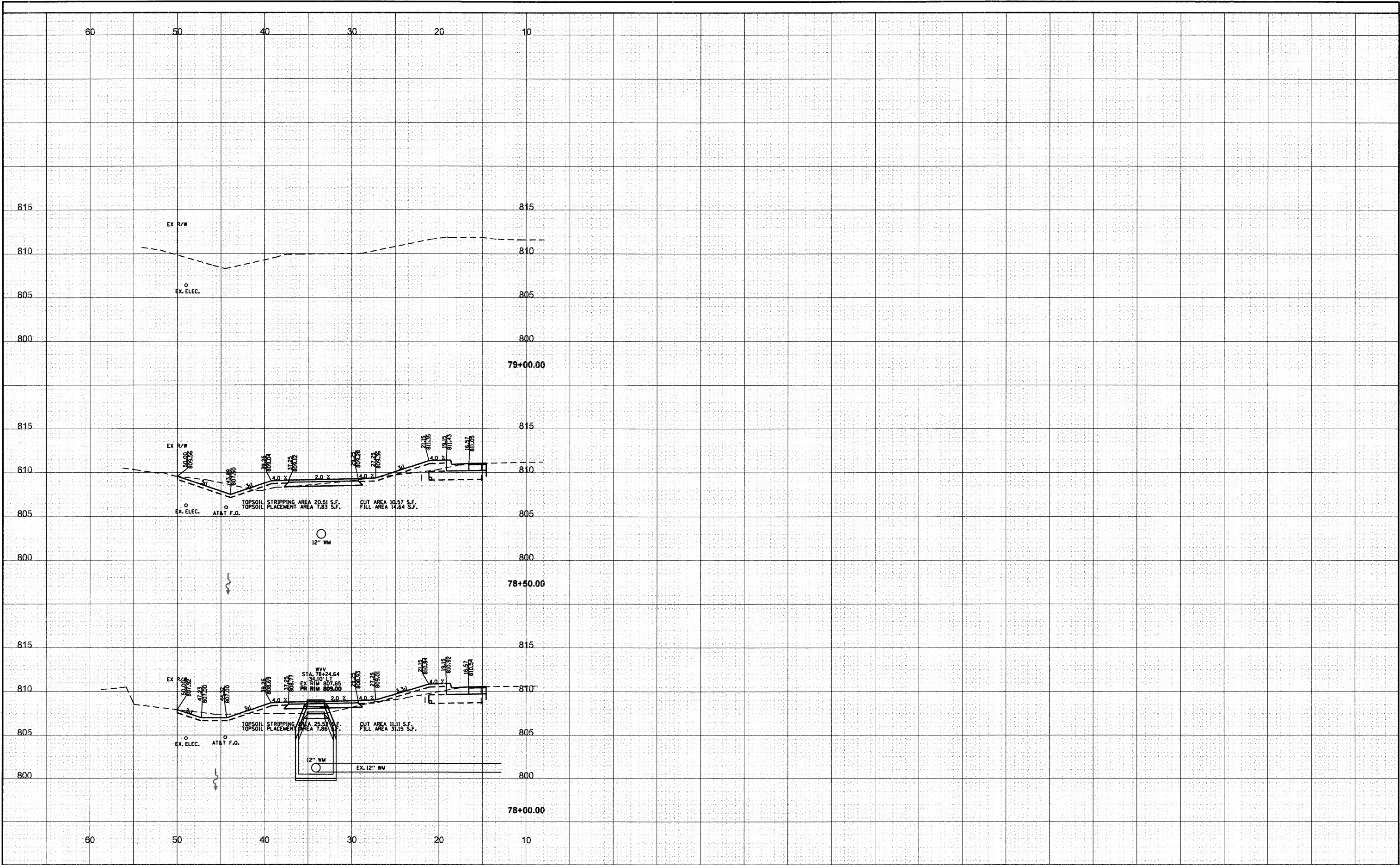
DATE
BY
SURVEYED
PLOTTED
NOTE BOOK
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FILE NAME - \$FILEL\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD CROSS SECTIONS SCALE: 1" = 5' SHEET NO. 13 OF 22 SHEETS STA. 69+00.00 TO STA. 71+50.00	F.A.U. RTE. 2605	SECTION 09-0071-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 38	ILLINOIS FED. AID PROJECT CONTRACT NO. 63619
	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -								
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -								
		DATE -	REVISED -								

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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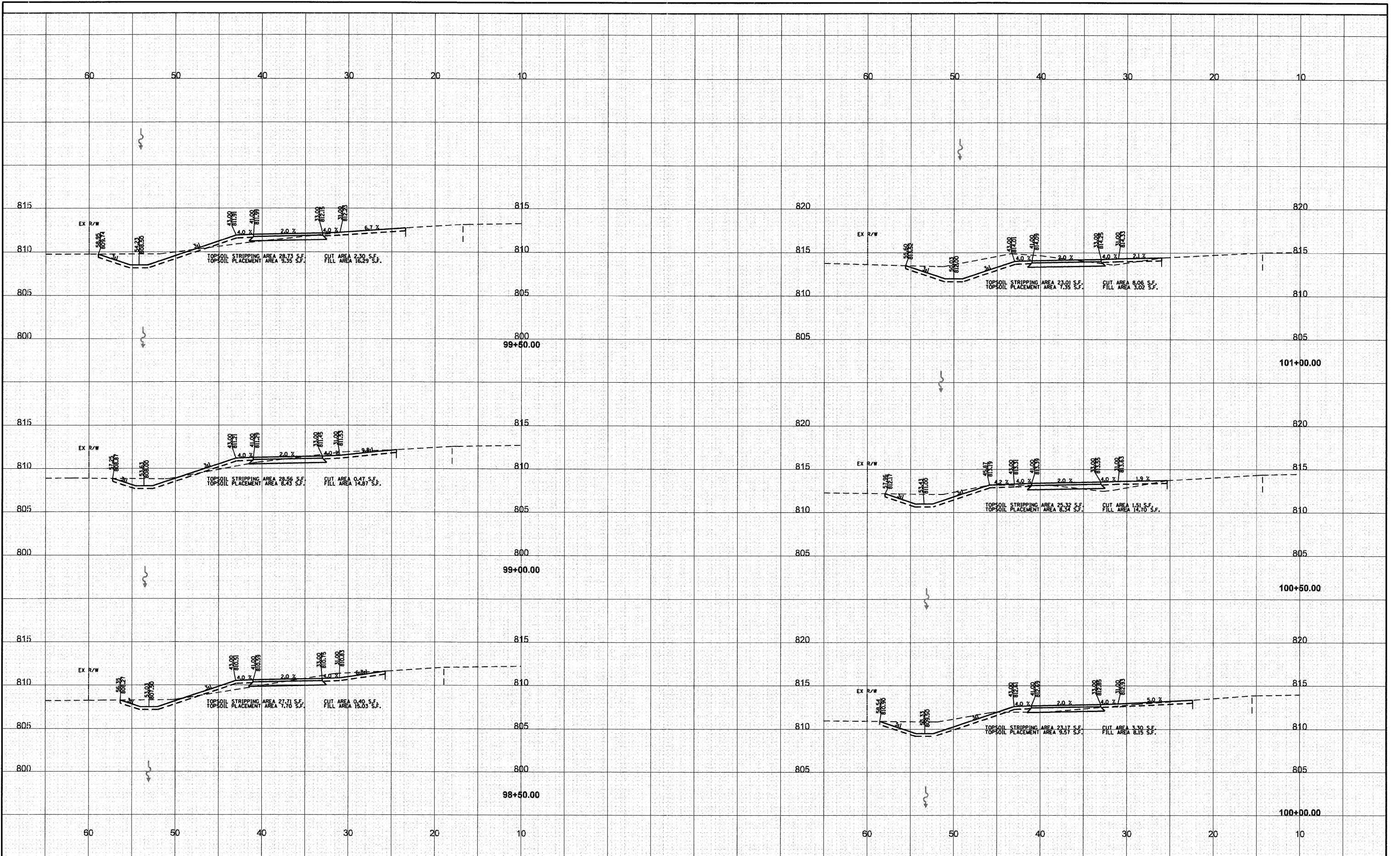
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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FILE NAME - \$FILEL\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD CROSS SECTIONS	F.A.U. RTE. 2605	SECTION 09-0071-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 41	
	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -			SCALE: 1" = 5'	SHEET NO. 16 OF 22 SHEETS	STA. 78+00.00 TO STA. 79+00.00	ILLINOIS FED. AID PROJECT		
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -								
		DATE -	REVISED -								

DATE	BY
NO.	
AREAS CHECKED	
TEMP. PLATE	
NOTE BOOK	
SURVEYED	
FIN. SURVEY	

DATE	BY
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AREAS CHECKED	
TEMP. PLATE	
NOTE BOOK	
SURVEYED	
ORIG. SURVEY	



FILE NAME -	USER NAME - \$USER\$
\$FILEL\$	

DESIGNED -	REVISOR -
DRAWN -	REVISOR -
CHECKED -	REVISOR -
DATE - \$DATE\$	REVISOR -

PLOT SCALE - \$SCALE\$	CHECKED -	REVISOR -
	DATE -	REVISOR -

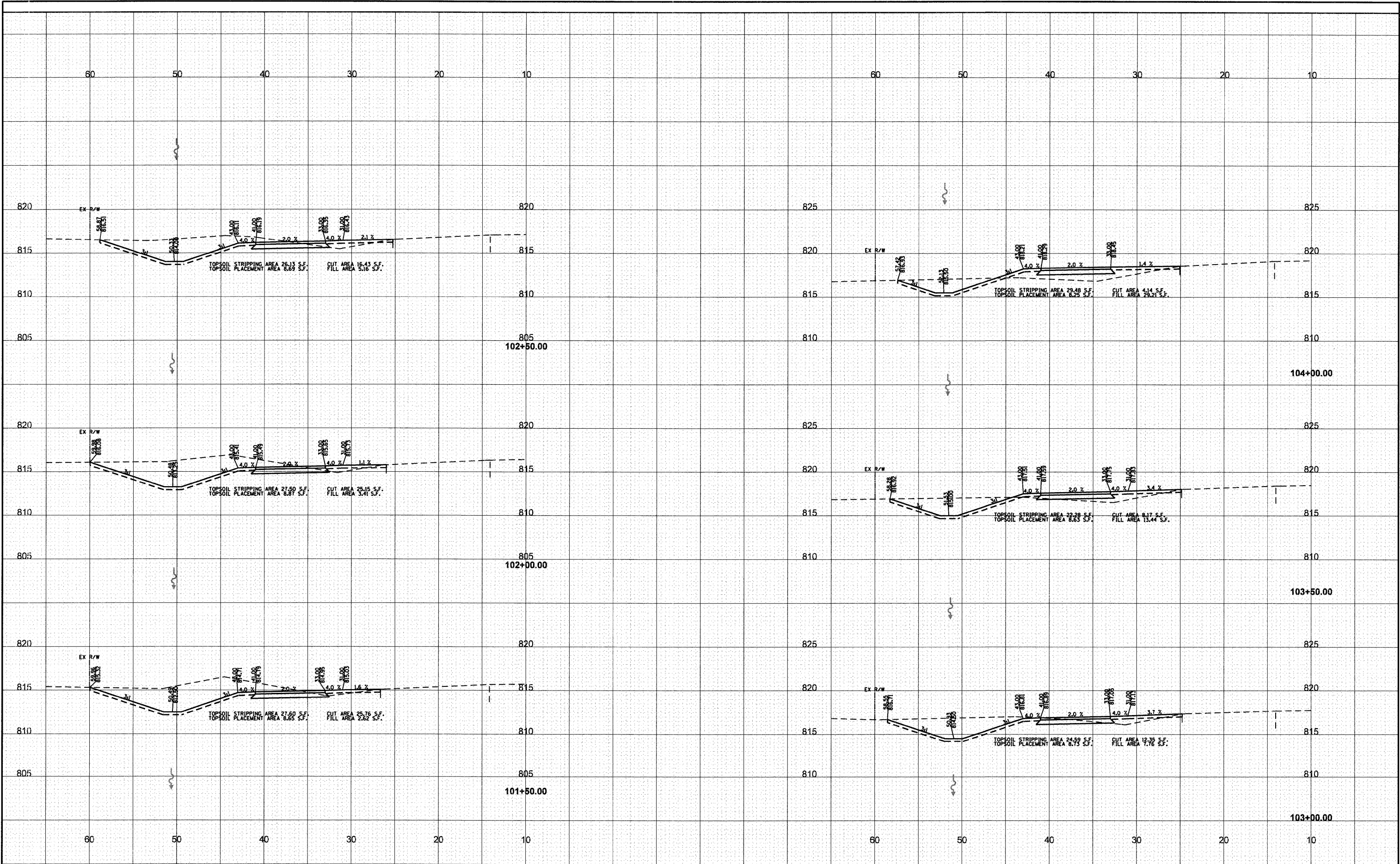
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 5'		
SHEET NO. 18 OF 22 SHEETS	STA. 98+50.00	TO STA. 101+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	09-0071-13-BT	LAKE	59	43
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME -	USER NAME - \$USER\$
\$FILEL\$	
	PLOT SCALE - \$SCALE\$
	PLOT DATE - \$DATE\$

DESIGNED -	REVISOR -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

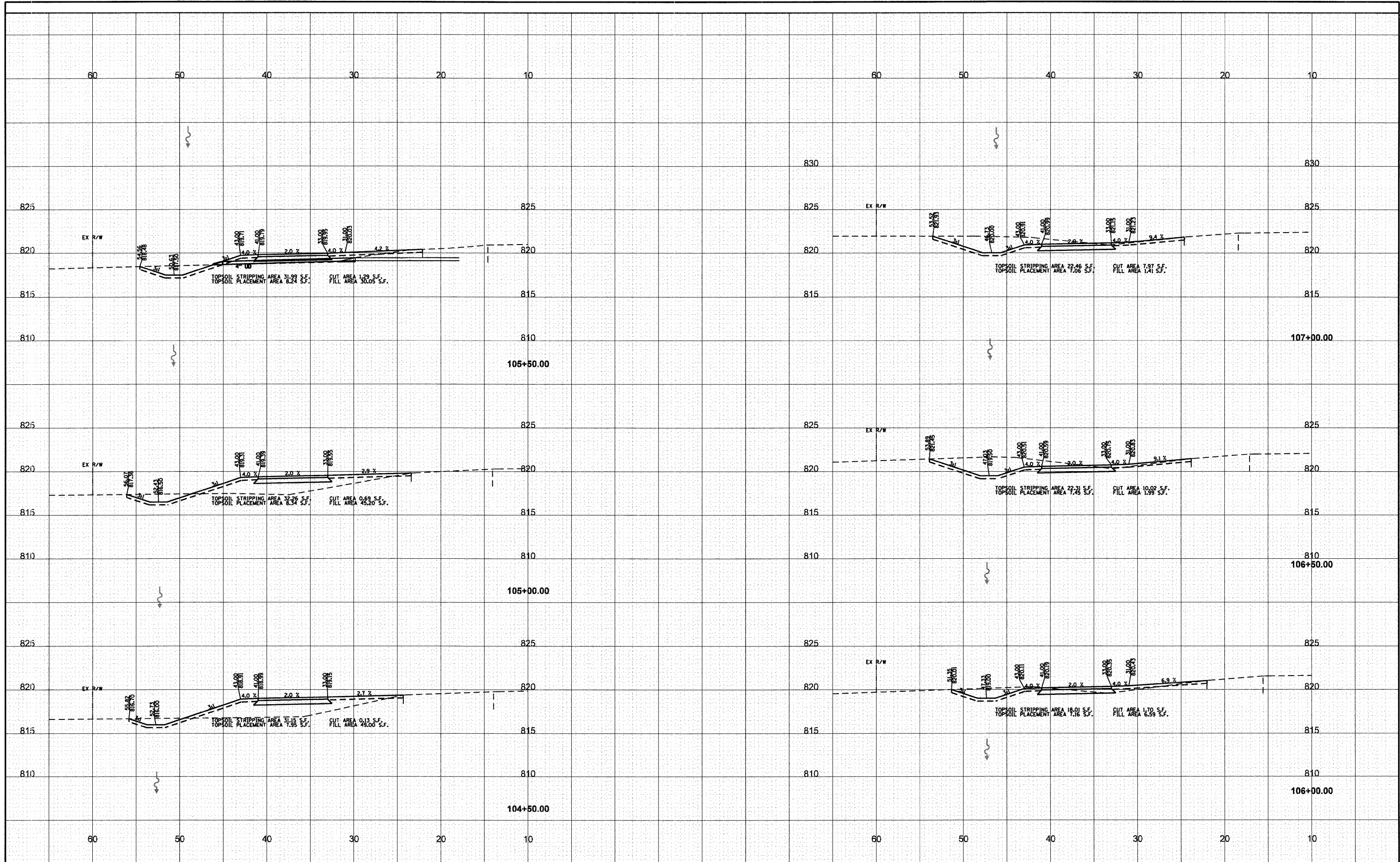
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MIDLOTHIAN ROAD CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 19 OF 22 SHEETS
STA. 101+50.00 TO STA. 104+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	09-00171-13-BT	LAKE	59	44
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME -	USER NAME - \$USER\$
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DESIGNED -	REVISOR -
DRAWN -	REVISOR -
CHECKED -	REVISOR -
DATE -	REVISOR -

PLOT SCALE - \$SCALE\$	
PLOT DATE - \$DATE\$	

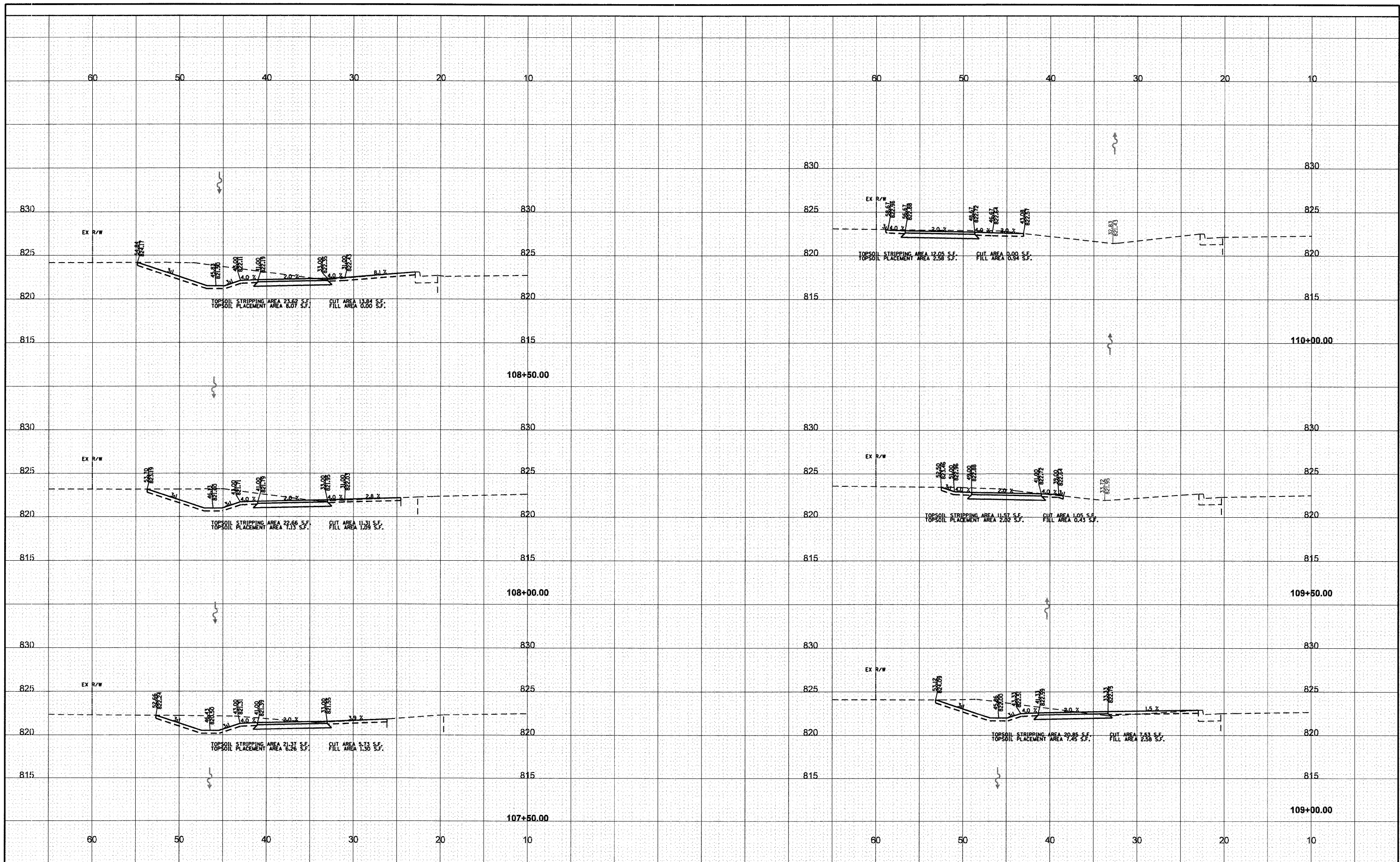
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MIDLOTHIAN ROAD CROSS SECTIONS
SCALE: 1" = 5'
SHEET NO. 20 OF 22 SHEETS STA. 104+50.00 TO STA. 107+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	09-00171-13-BT	LAKE	59	45
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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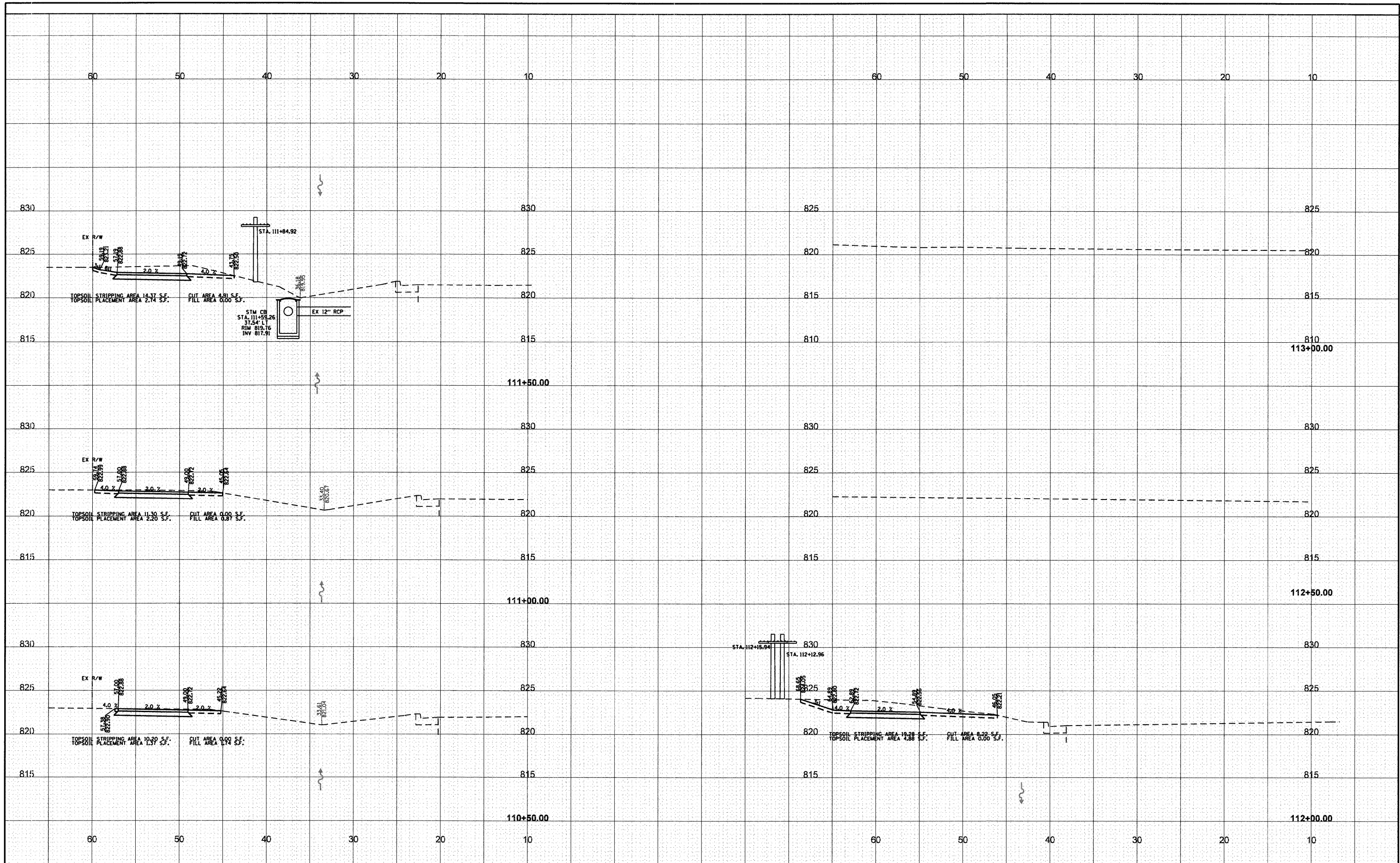
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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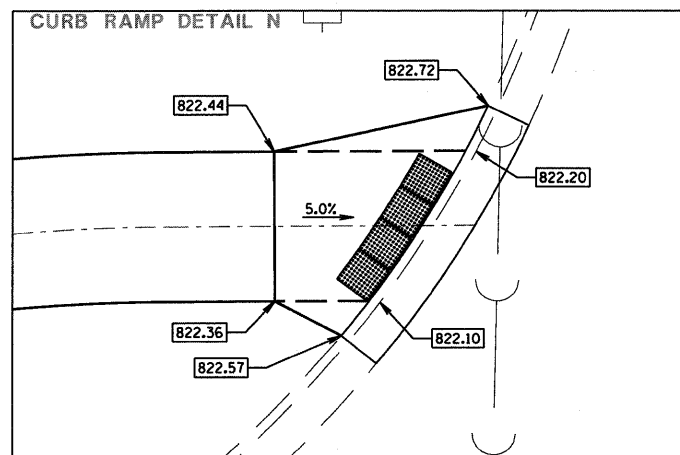
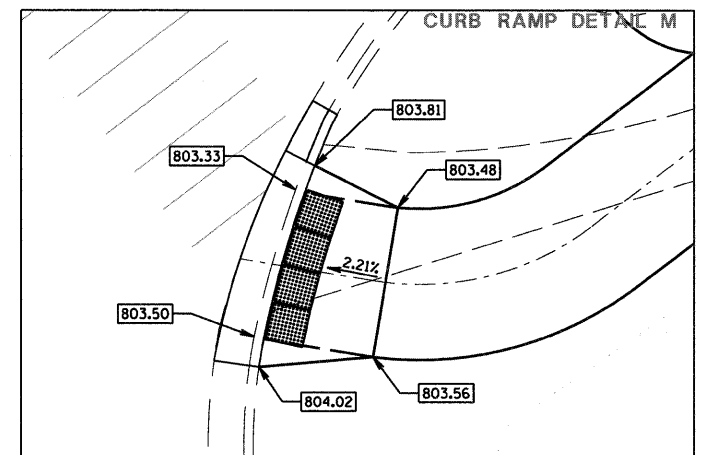
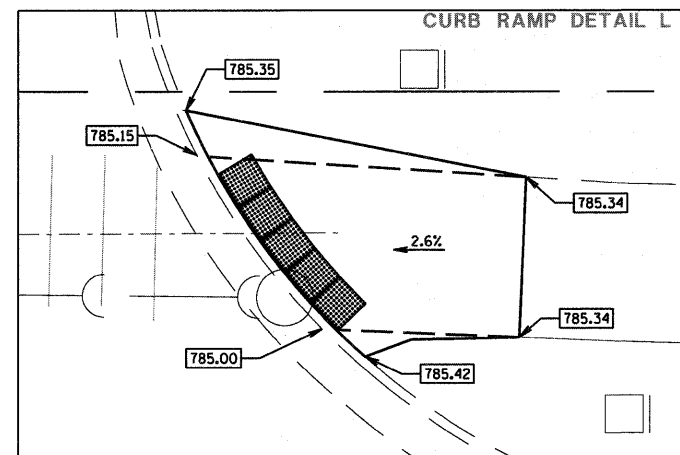
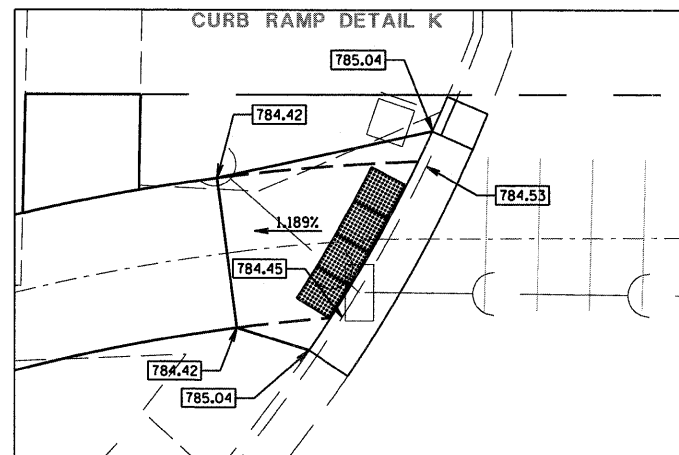
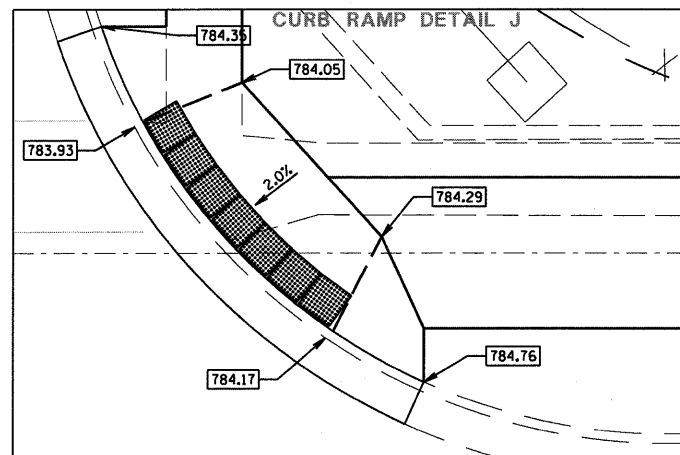
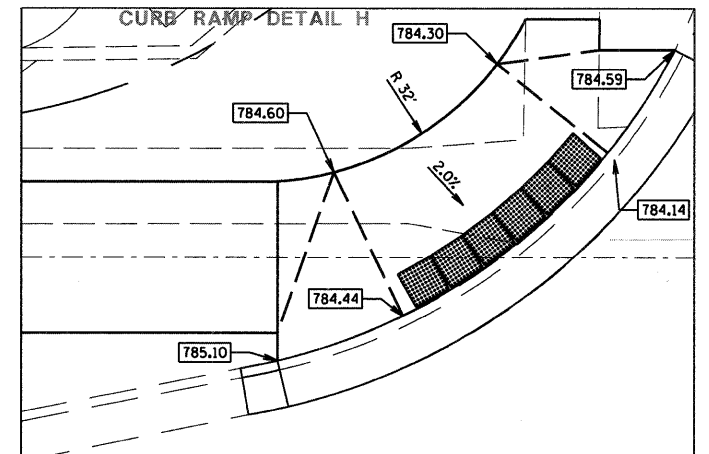
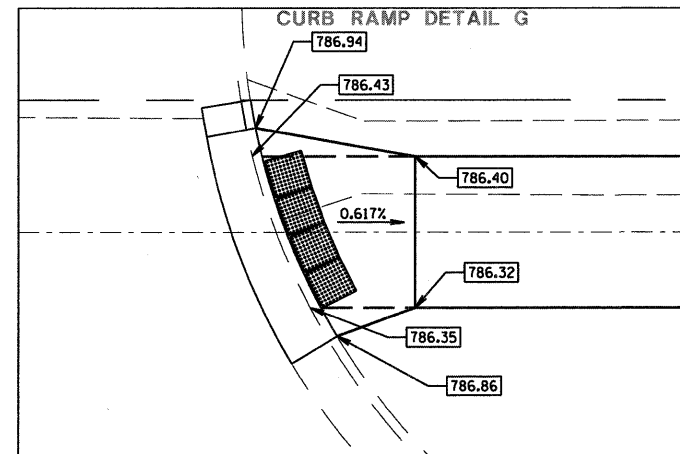
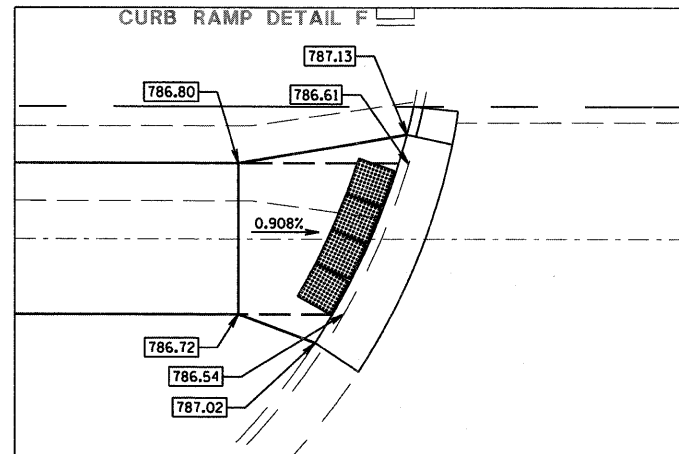
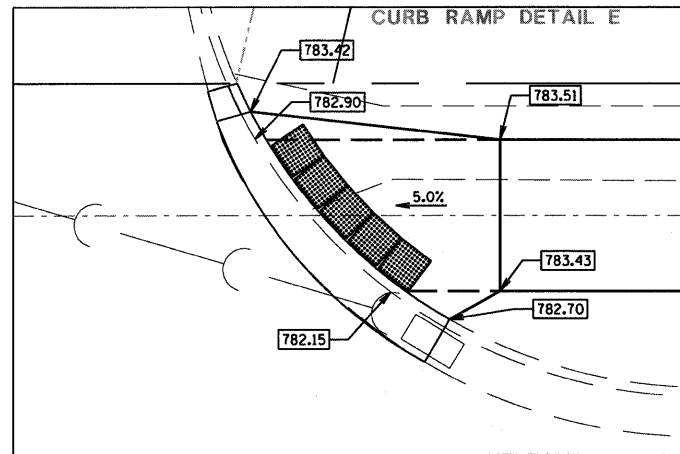
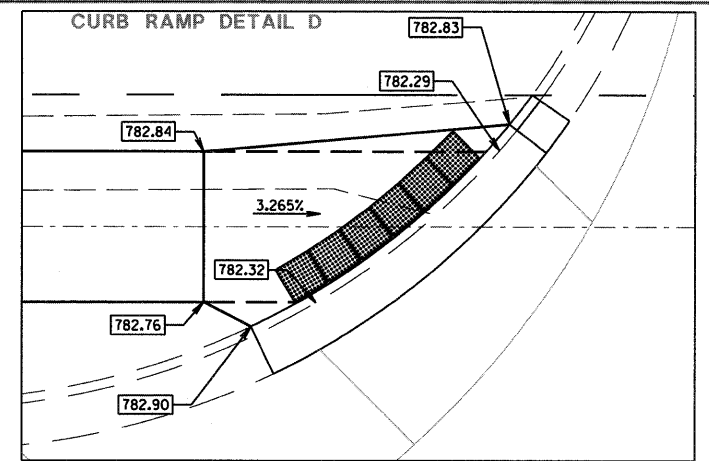
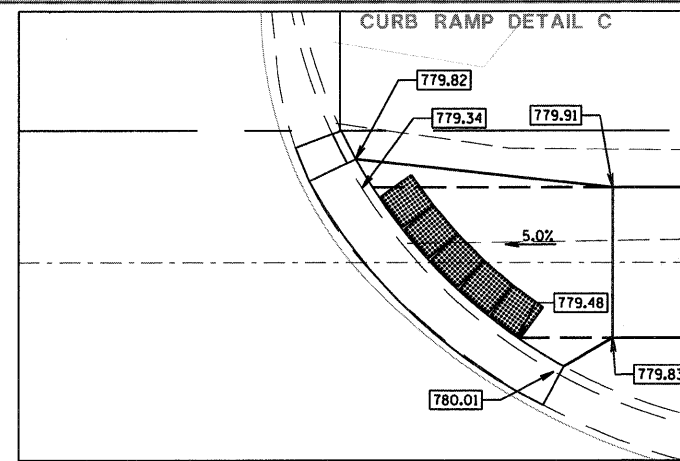
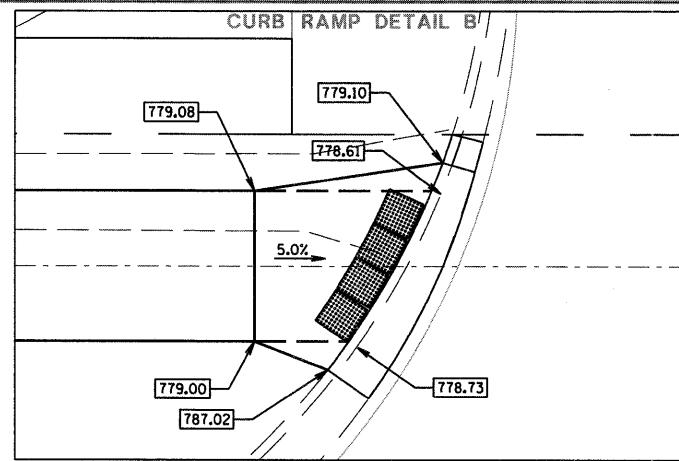
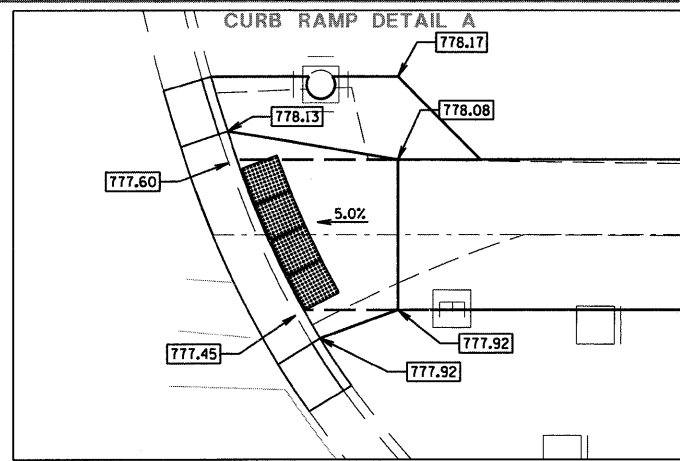
FILE NAME - \$FILES\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD CROSS SECTIONS	F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 46		
	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -			SCALE: 1" = 5'	SHEET NO. 21 OF 22 SHEETS	STA. 107+50.00 TO STA. 110+00.00	CONTRACT NO. 63619			
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

DATE	BY
SURVEYED	BY
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TEMPLATE	BY
NOTE BOOK	BY
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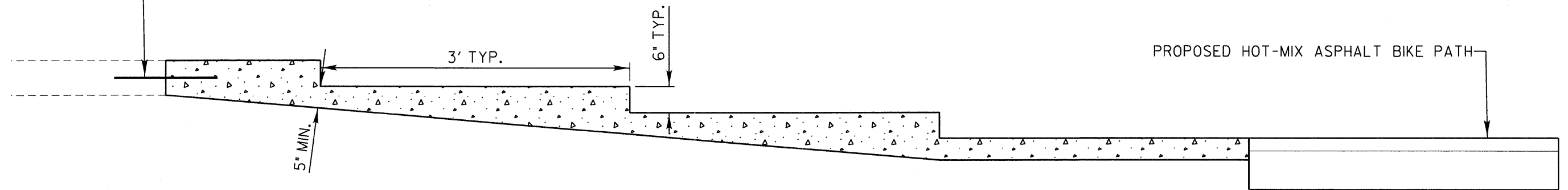


FILE NAME -	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIDLOTHIAN ROAD CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN -	REVISED -			2605	09-00171-13-BT	LAKE	59	47	
		CHECKED -	REVISED -			CONTRACT NO. 63619					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: 1" = 5'		SHEET NO. 22 OF 22 SHEETS		STA. 110+50.00 TO STA. 113+00.00			



FILE NAME -	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB RAMP DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILES\$		DRAWN -	REVISED -		SCALE: 1" = 5'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2605	09-00171-13-BT	LAKE	59 48
		CHECKED -	REVISED -		CONTRACT NO. 63619							
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

DOWEL TO EXISTING STEPS



NOTE:

PROVIDE (3)-#4-18" EPOXY DOWELS WITH 4" MINIMUM EMBEDMENT. SPACE @ 18"-O.C. LOCATE IN CENTER OF SLAB. INSTALL EPOXY IN ACCORDANCE WITH MANUFACTURER WRITTEN SPECIFICATIONS. THE COST OF EPOXY DOWELS SHALL BE INCLUDED IN THE PRICE OF CONCRETE STEPS.

BILL OF MATERIALS		
1.70	PORTLAND CEMENT CONCRETE	C.Y.
3	DOWEL BARS	EA.

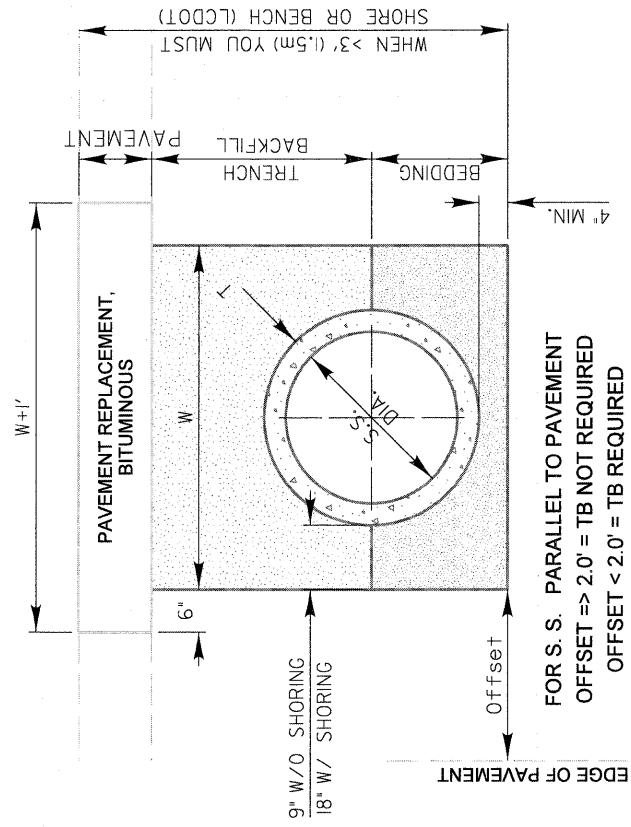
CONCRETE STEPS

N.T.S.

FILE NAME - \$FILEL\$	USER NAME - \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE STEPS DETAIL			F.A.U. RTE. 2605	SECTION 09-007I-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 49
	PLOT SCALE - \$SCALE\$	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 63619				
	PLOT DATE - \$DATE\$	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

ENGLISH S.S. DIA. (IN)	TRENCH WIDTH (W)		MIN OFFSET FROM E.O.P.* FOR NO TB		1/2 PIPE AREA [O.D.] (SQ.FT)	
	WITHOUT SHORING (FT)	WITH SHORING (FT)	WITHOUT SHORING (FT)	WITH SHORING (FT)		
10	2.00	2.67	4.17	3.33	4.08	0.53
12	2.00	2.83	4.33	3.42	4.17	0.70
15	2.25	3.13	4.63	3.56	4.31	1.04
18	2.50	3.42	4.92	3.71	4.46	1.44
21	2.75	3.71	5.21	3.85	4.60	1.92
24	3.00	4.00	5.50	4.00	4.75	2.45
27	3.25	4.29	5.79	4.15	4.90	3.06
30	3.50	4.58	6.08	4.29	5.04	3.73
36	4.00	5.17	6.67	4.58	5.33	5.28
42	4.50	5.75	7.25	4.88	5.63	7.09
48	5.00	6.33	7.83	5.17	5.92	9.17

* TO CENTER LINE OF PIPE



FOR S. S. PARALLEL TO PAVEMENT
OFFSET => 2.0' = TB NOT REQUIRED
OFFSET < 2.0' = TB REQUIRED

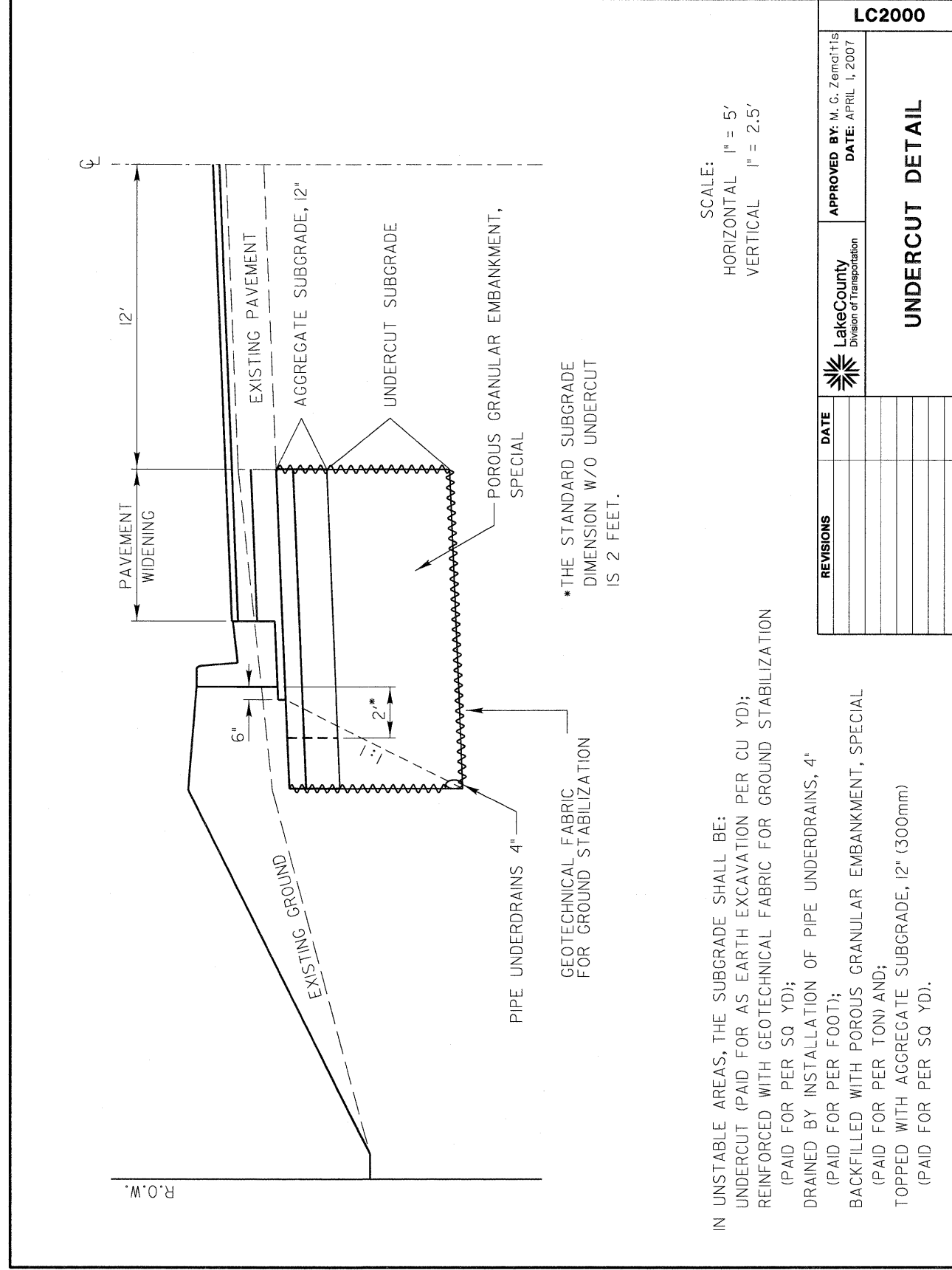
SCALE: 1" = 2'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS	DATE: APRIL 1, 2007	TRENCH WIDTHS FOR TRENCH BACKFILL & PAVEMENT REPLACEMENT, BITUMINOUS
Text Revision	11/06/07	Lake County Division of Transportation		
Text Update	7/14/11			

LC0020

DESIGN NOTES:

1. Trench backfill is required if the storm sewer or culvert offset from the edge of the pavement is less than the tabulated values (the inner trench wall is closer than 2' to the edge of pavement)
2. Payment for the trench backfill shall not exceed the quantity computed using the maximum trench width dimensions. If the trench is excavated beyond these limits, the contractor shall furnish and place any additional trench backfill at his/her expense.
3. If the trench width is less than the above maximum values, payment will be based on the actual dimensions of the dug trench.
4. Bedding shall be placed from 4" under the pipe to the spring line of the pipe and is incidental to the corresponding storm sewer or culvert pay item.
5. If any part of the excavation for a drainage structure falls within 2' of the edge of pavement, the space between the side of the excavation and the outer surface of the drainage structure shall be filled with trench backfill. The cost of this item is included in the pay item for the drainage structure.



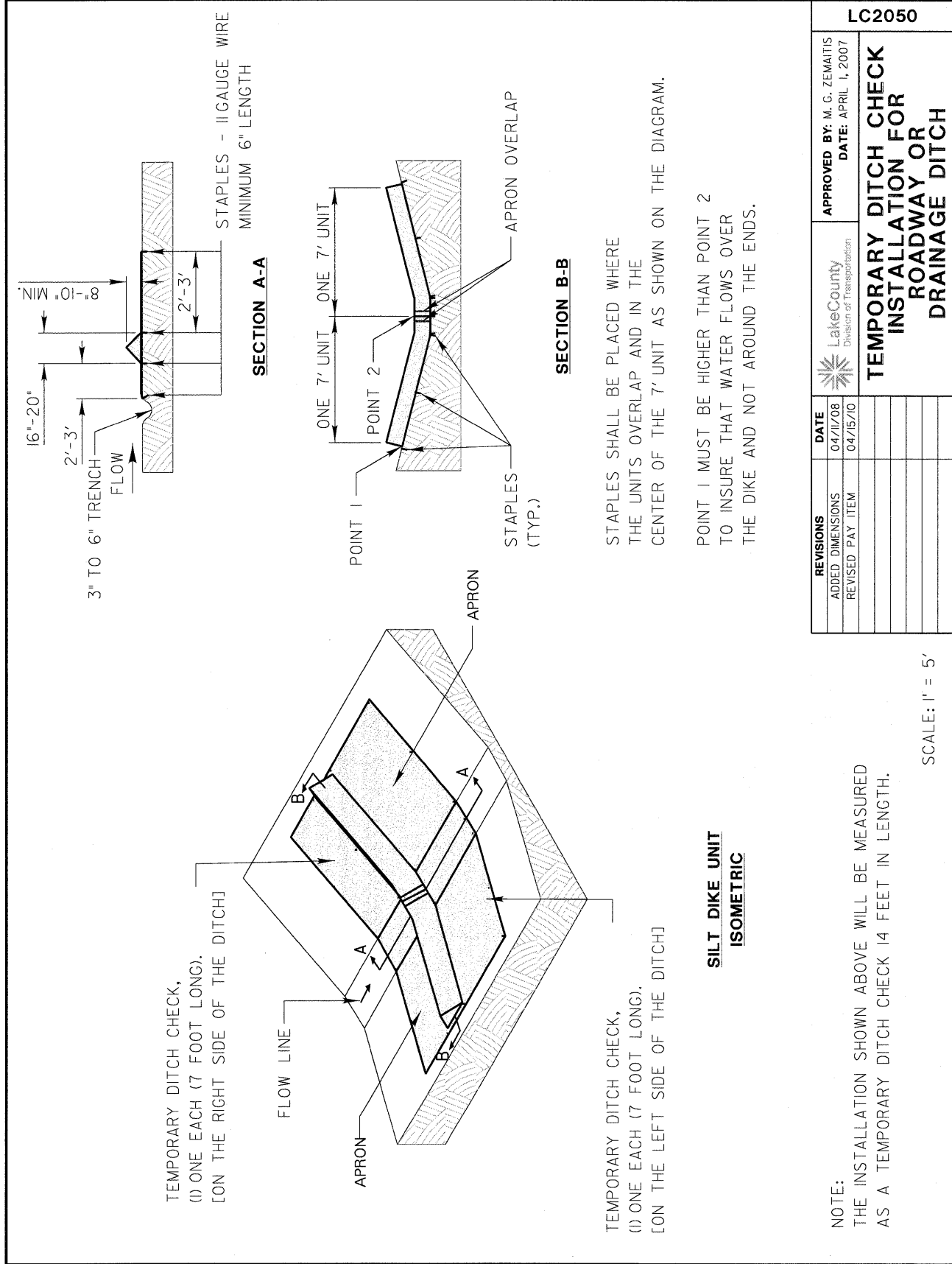
SCALE:
HORIZONTAL 1" = 5'
VERTICAL 1" = 2.5'

IN UNSTABLE AREAS, THE SUBGRADE SHALL BE:
UNDERCUT (PAID FOR AS EARTH EXCAVATION PER CU YD);
REINFORCED WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (PAID FOR PER SQ YD);
DRAINED BY INSTALLATION OF PIPE UNDERDRAINS, 4" (PAID FOR PER FOOT);
BACKFILLED WITH POROUS GRANULAR EMBANKMENT, SPECIAL (PAID FOR PER TON) AND;
TOPPED WITH AGGREGATE SUBGRADE, 12" (300mm) (PAID FOR PER SQ YD).

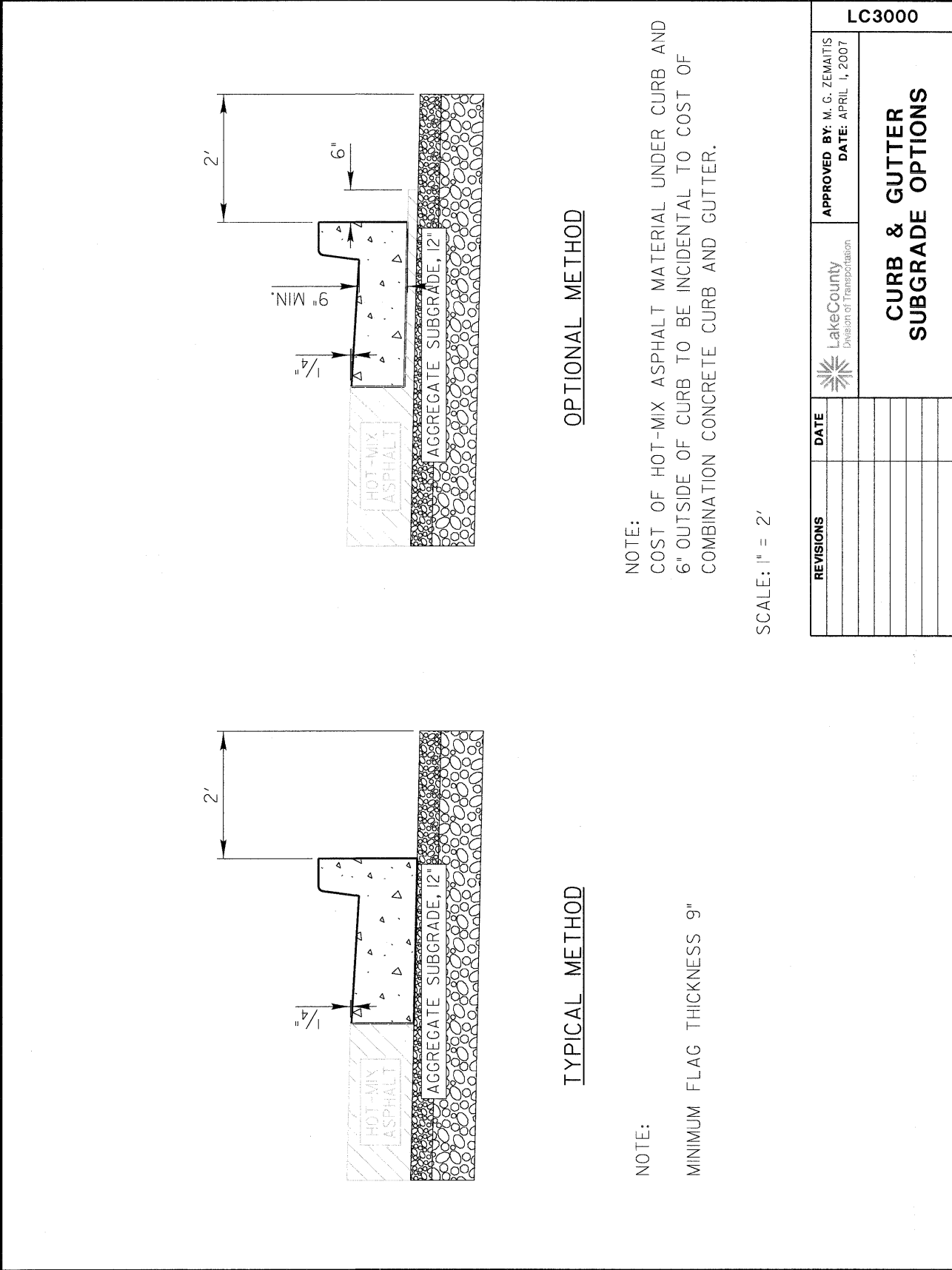
*THE STANDARD SUBGRADE DIMENSION W/O UNDERCUT IS 2 FEET.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS	DATE: APRIL 1, 2007	UNDERCUT DETAIL
		Lake County Division of Transportation		

LC2000



REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS	LC2050
ADDED DIMENSIONS	04/11/08	DATE: APRIL 1, 2007	TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH
REVISED PAY ITEM	04/15/10		



PLAN VIEW
PREFAB PORTABLE WASHOUT

SECTION A-A

PLAN VIEW
BELOW GRADE

SECTION B-B

NOT TO SCALE

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

REVISIONS	DATE

APPROVED BY: MGZ
DATE: March 17, 2008

Lake County
Division of Transportation

CONCRETE WASHOUT FACILITIES
SHEET 1 OF 2

PLAN VIEW
ABOVE GRADE

SECTION C-C

PLAN VIEW
ABOVE GRADE WITH STRAW BALES

SECTION D-D

NOT TO SCALE

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

REVISIONS	DATE

APPROVED BY: MGZ
DATE: March 17, 2008

Lake County
Division of Transportation

CONCRETE WASHOUT FACILITIES
SHEET 2 OF 2

FILE NAME SFILEL\$

USER NAME - #USER#
PLOT SCALE - #SCALE#
PLOT DATE - #DATE#

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

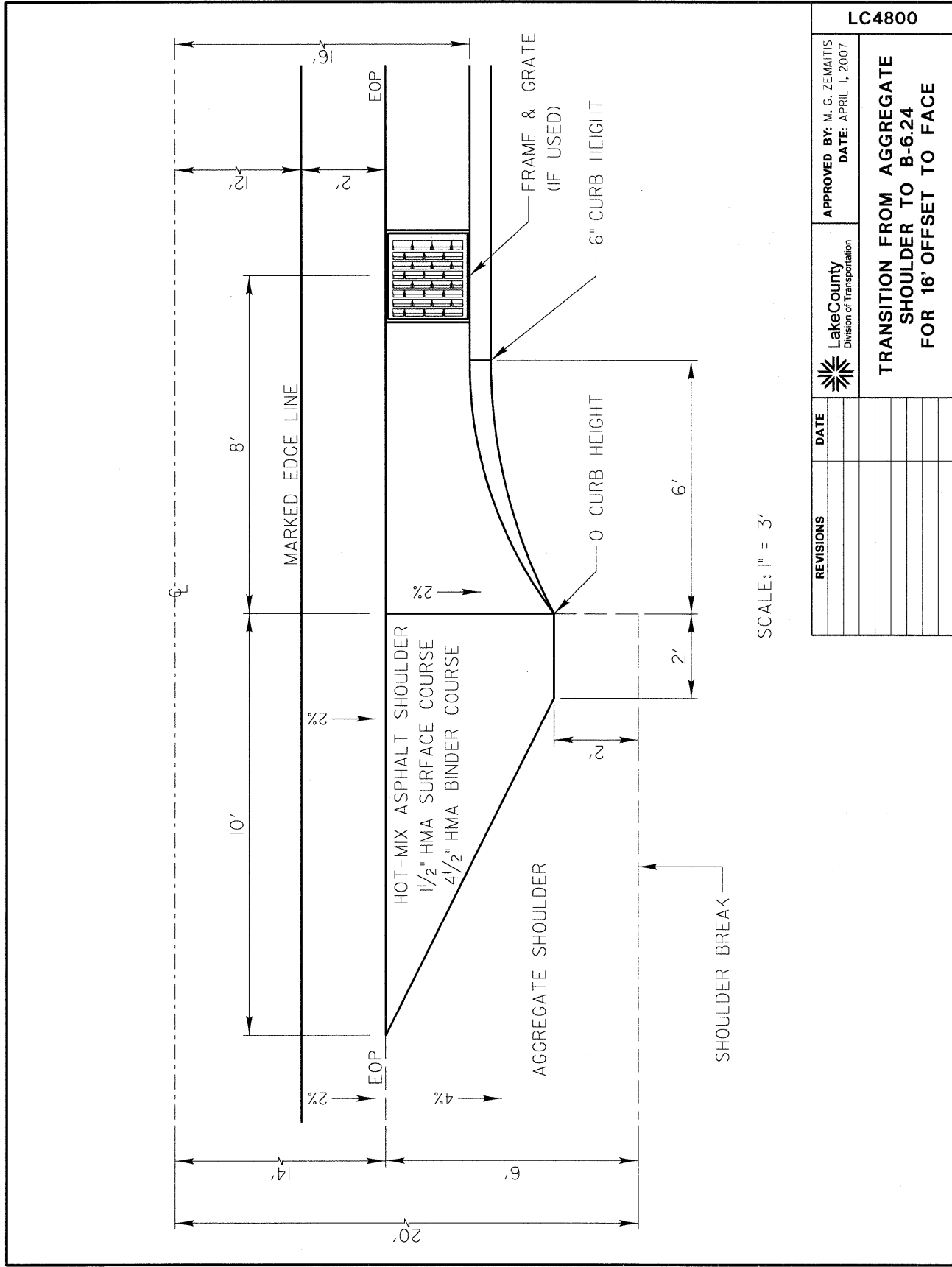
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
STANDARD DETAILS

SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. TO STA.

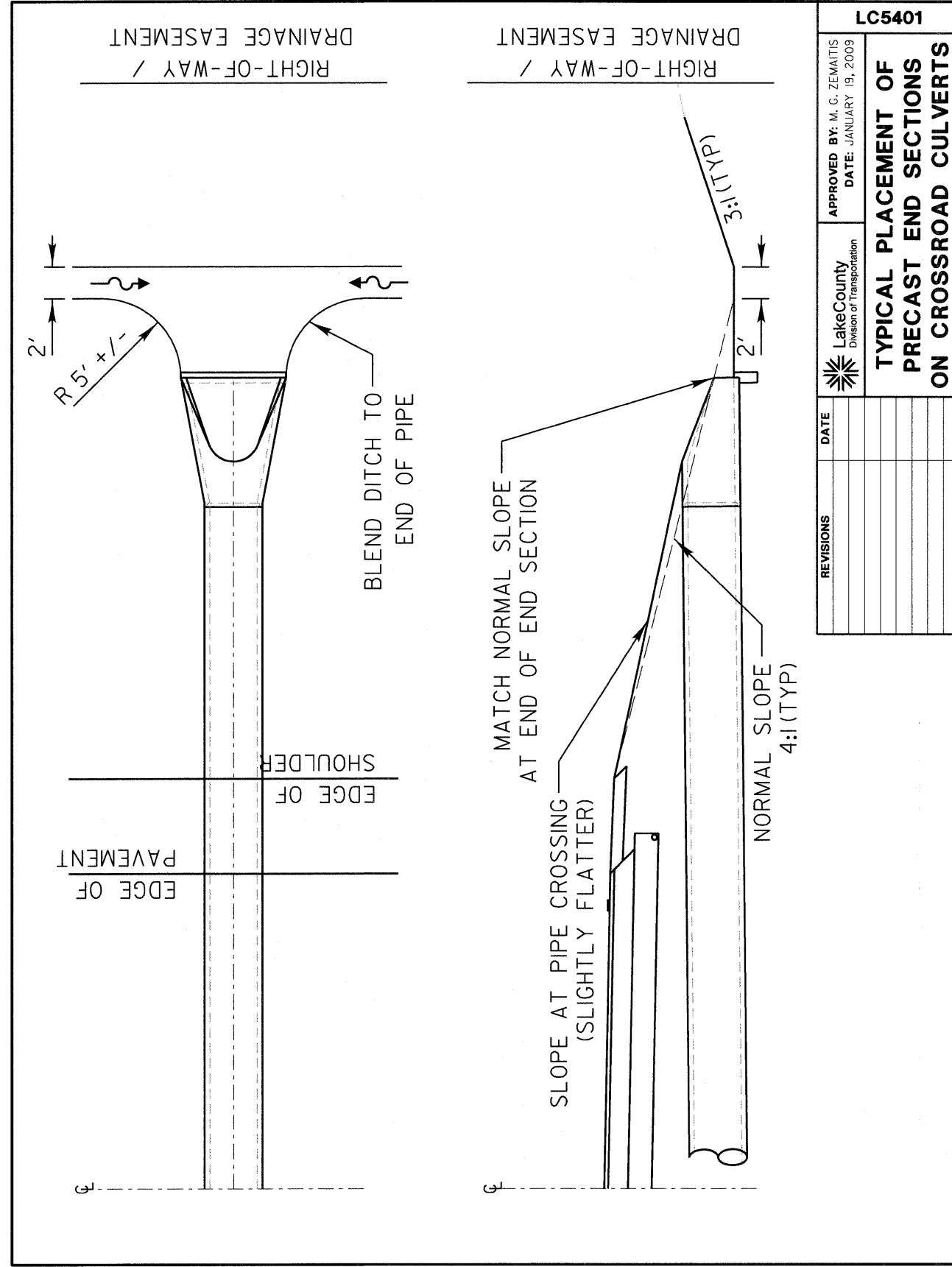
F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 53
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				



SCALE: 1" = 3'

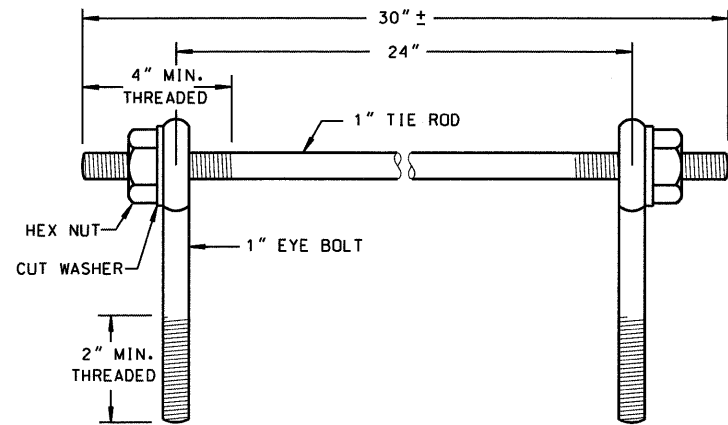
REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007

LC4800
Lake County
Division of Transportation
TRANSITION FROM AGGREGATE
SHOULDER TO B-6.24
FOR 16' OFFSET TO FACE



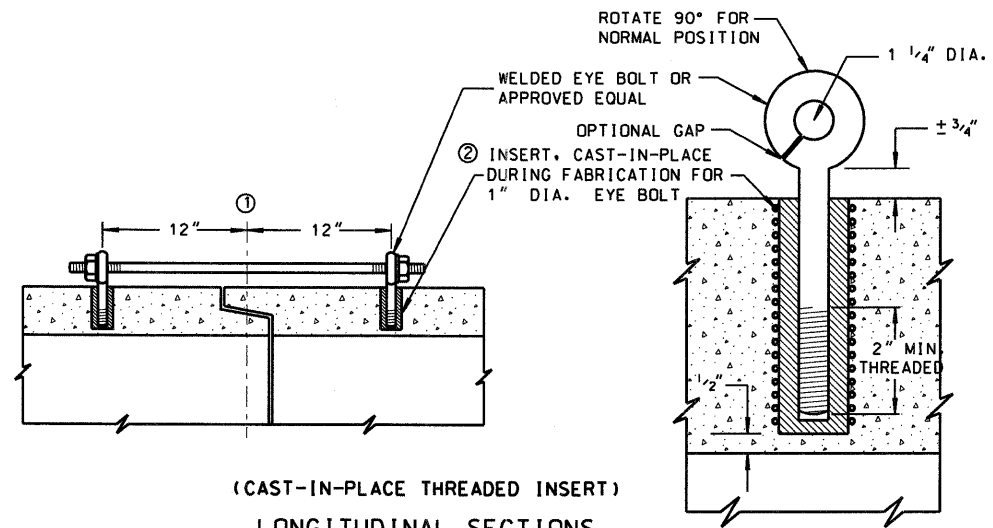
REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: JANUARY 19, 2009

LC5401
Lake County
Division of Transportation
TYPICAL PLACEMENT OF
PRECAST END SECTIONS
ON CROSSROAD CULVERTS



EYE BOLTS AND TIE ROD

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(CAST-IN-PLACE THREADED INSERT)
LONGITUDINAL SECTIONS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. JOINT TIES AND HARDWARE SHALL BE GALVANIZED STEEL.

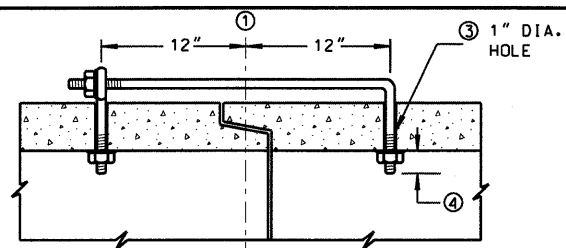
CONCRETE CULVERT PIPE AND SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT THE LAST THREE JOINTS BEFORE A FLARED END SECTION

THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR CONCRETE PIPE.

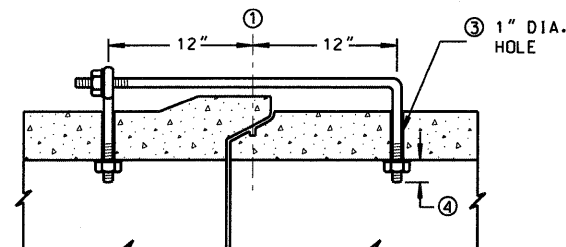
UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS OR STORM SEWERS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR GALVANIZED STEEL JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

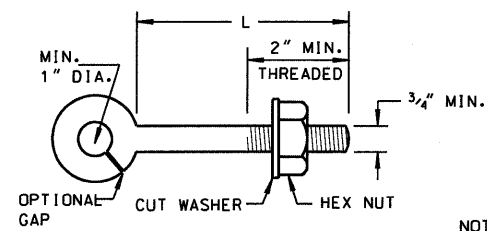
- ① 1/2 OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM 1/2 OF TONGUE AND GROOVE.
- ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".
- ⑤ OPENING TO BE ROD DIAMETER + 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

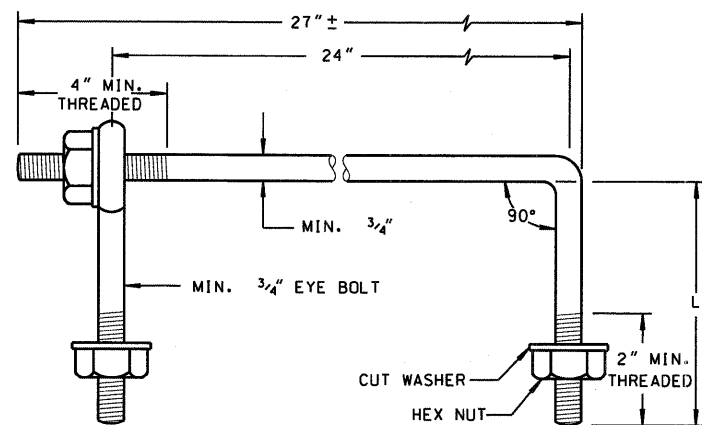


(MODIFIED BELL PIPE)
LONGITUDINAL SECTION



EYE BOLT

NOTE:
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



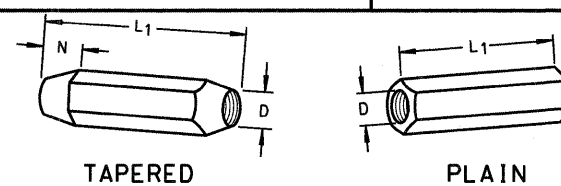
EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

EYE BOLT DIMENSION TABLE

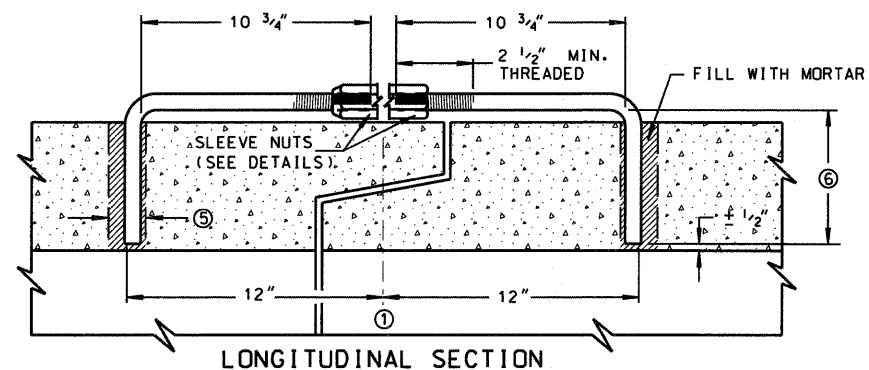
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



TAPERED PLAIN

RIGHT AND LEFT THREADS

SLEEVE NUTS



LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

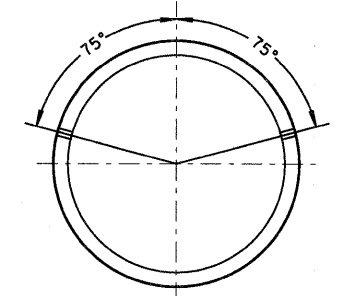
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES

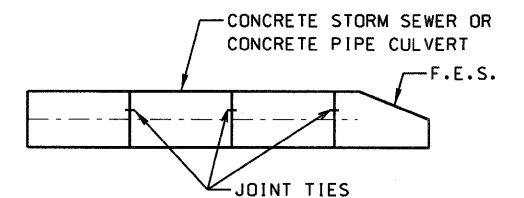
NOT TO SCALE

REVISIONS	DATE
ADDED JOINT TIE MAT'L	7/8/11



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



TYPICAL JOINT TIE LOCATIONS

LakeCounty
Division of Transportation

APPROVED BY: M. ZEMAITIS
DATE: 04/01/11

**JOINT TIES FOR
CONCRETE PIPE**

LC5402

FILE NAME -
#FILEL*

USER NAME - #USER#
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISOR -
REVISIONS -
DATE -

DESIGNED -
DRAWN -
CHECKED -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

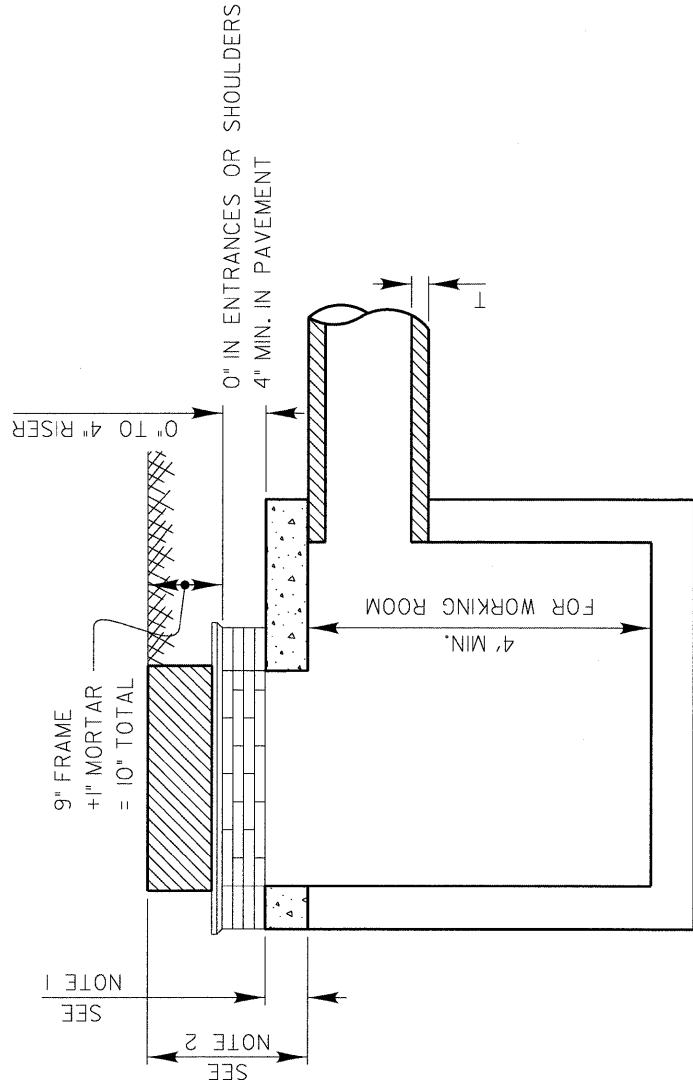
LAKE COUNTY DIVISION OF TRANSPORTATION
STANDARD DETAILS

SCALE: NONE SHEET NO. 6 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2605	09-00171-13-BT	LAKE	59	55
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

NOTE 1:
6" - 4' DIA. M.H.
8" - 5' DIA. M.H.

NOTE 2:
4' M.H. 1'-8" DESIRABLE
1'-4" MIN.
5' M.H. 1'-10" DESIRABLE
1'-6" MIN.



PIPE DIA.	T	MINIMUM DEPTH	
		4' DIAMETER	5' DIAMETER
10"	2"	2.33'	2.50'
12"	2"	2.50'	2.67'
15"	2 1/4"	2.77'	2.94'
18"	2 1/2"	3.04'	3.21'
21"	2 3/4"	-	3.48'
24"	3"	-	3.75'
30"	3 1/2"	-	4.29'
36"	4"	-	4.83'
42"	4 1/2"	-	5.38'

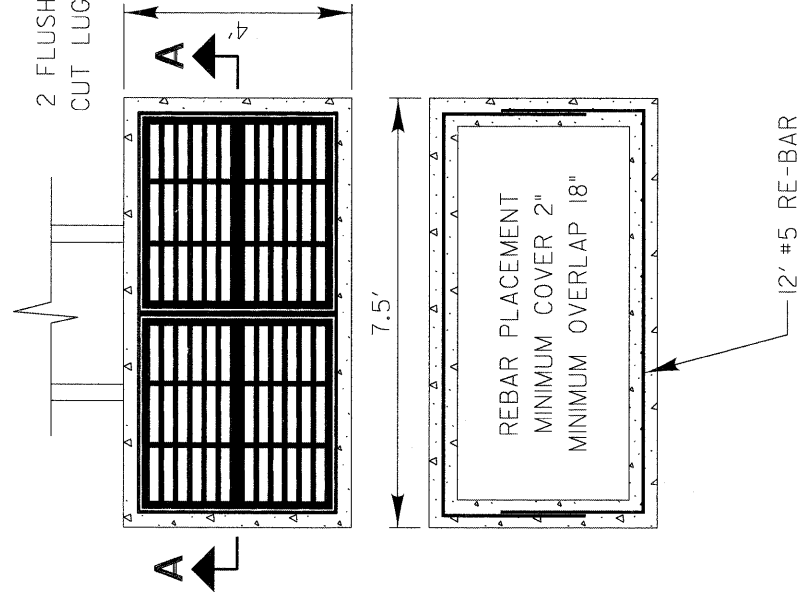
STRUCTURES REQUIRE SUMP FOR HEADROOM

SCALE: 1"=2'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS	DATE: APRIL 1, 2007

RESTRICTED DEPTH MANHOLE

LC6000



DRILL AND TAP FOR 2 EACH 5/8" MACHINE SCREWS

BILL OF MATERIALS

MACHINE SCREWS 5/8" x 1/4" = 2 EACH
 #5 REBAR = 24'
 STD. 542546 STEEL FRAME and GRATE = 2 EACH
 PORTLAND CEMENT CONCRETE (+5%) = CU YD

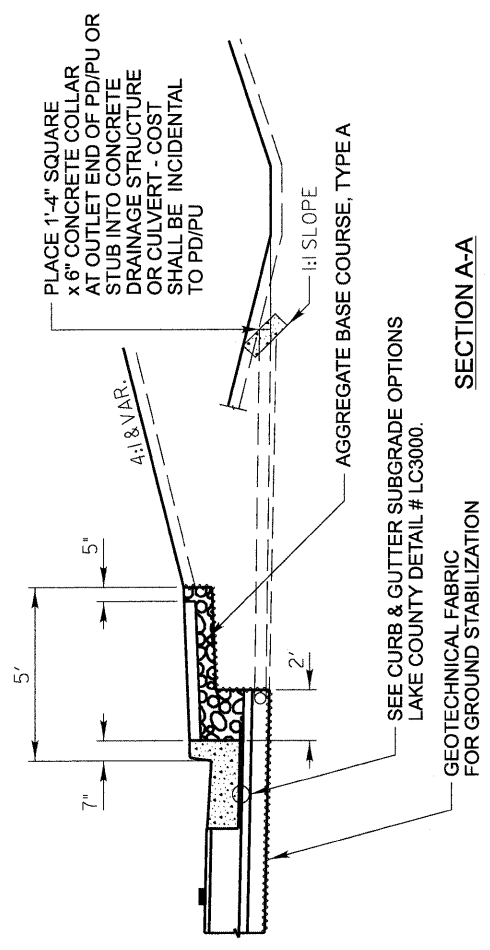
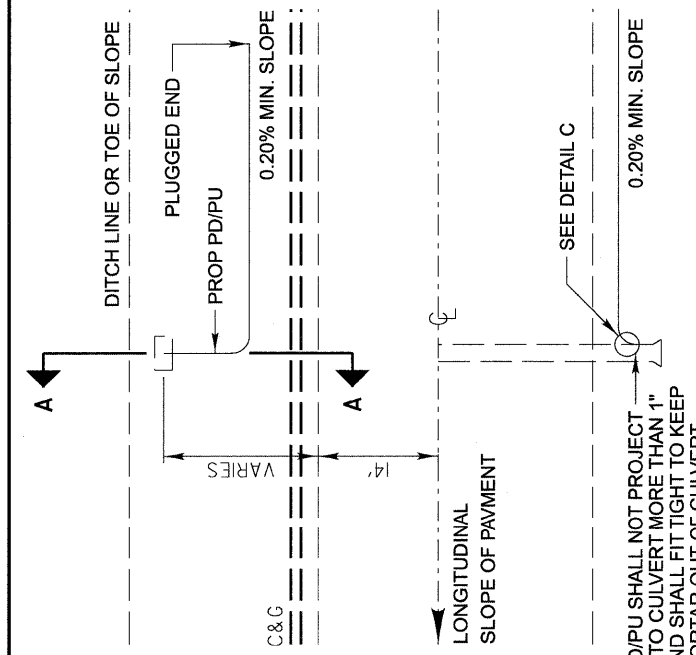
SEE IDOT STD. 542546 FOR TYPICAL DETAILS OF STD. FLUSH INLET BOX FOR MEDIAN

SCALE: 1" = 3'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS	DATE: APRIL 1, 2007

INLET SPECIAL, STANDARD 542546, DOUBLE (FLAT GRATES)

LC6001



SEE CURB & GUTTER SUBGRADE OPTIONS
LAKE COUNTY DETAIL # LC3000.

SECTION A-A

AGGREGATE BASE COURSE, TYPE A

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

PLACE 1'-4" SQUARE x 6" CONCRETE COLLAR AT OUTLET END OF PD/PU OR DRAINAGE STRUCTURE OR CULVERT - COST SHALL BE INCIDENTAL TO PD/PU

4:1 & VAR.

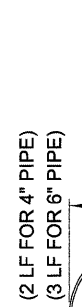
H:1 SLOPE

5'

2'

(2 LF FOR 4" PIPE)
(3 LF FOR 6" PIPE)

4 1/2" FOR 4" PIPE
6 1/2" FOR 6" PIPE



3/16" WIRE STOCK BENT TO A SPIRAL CONFIGURATION. TO INSTALL, TWIST INTO PD/PU END. (FOR CORRUGATED CIRCULAR METAL PIPE)

TACK WELD

TACK WELD

6"x6" EXPANDED METAL SHIELD WITH TWO 2'-6" LONG PREFABRICATED 6 GAGE STEEL STRUTS FOR SNUG FIT INTO THE PD/PU END.

RODENT SHIELDS DETAIL (ALTERNATES) NOT TO SCALE

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

LC6020

LakeCounty
Division of Transportation

SUB-SURFACE DRAINS

TYPICAL PIPE DRAIN/PIPE UNDERDRAIN OUTLET

DESIGN NOTES:

All work shall be according to the applicable portions of the "Standard Specifications" except as modified hereon.

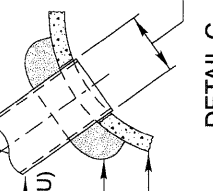
In addition to the requirements of Article 601.08 of the "Standard Specifications", the contract unit price per foot for pipe drains 4" & 6" and pipe underdrains 4" shall include the cost of furnishing and placing the rodent shield.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance with AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the Engineer.

PIPE DRAIN (PD)
PIPE UNDERDRAIN (PU)

P.C.C. GROUT

CULVERT DRAINAGE STRUCTURE OR HANDHOLE



FIELD CUT HOLE IN CULVERT FOR PIPE

DETAIL C

NOT TO SCALE

FILE NAME - #FILE#	USER NAME - #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

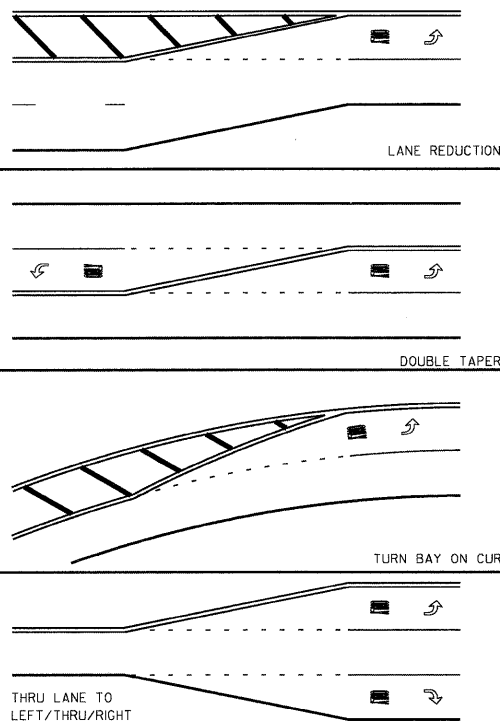
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
STANDARD DETAILS

SCALE: NONE SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.U. RTE. 2605	SECTION 09-00171-13-BT	COUNTY LAKE	TOTAL SHEETS 59	SHEET NO. 56
CONTRACT NO. 63619				
ILLINOIS FED. AID PROJECT				

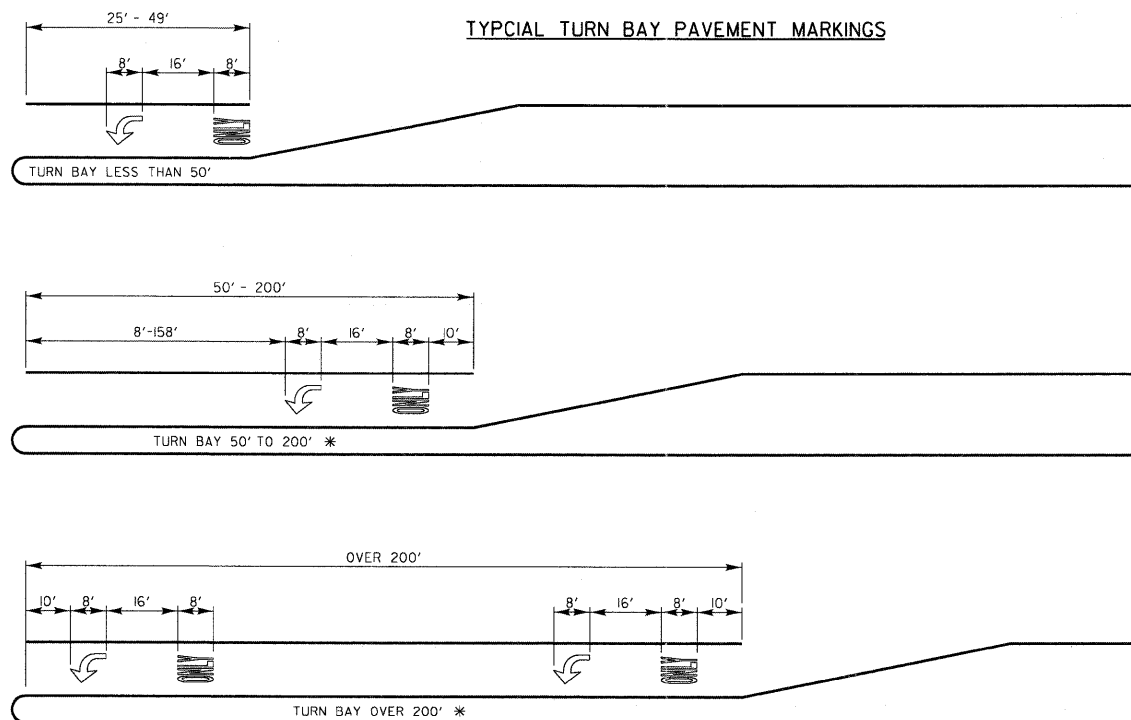
TYPICAL MINI-SKIP PAVEMENT MARKINGS



MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

TYPICAL PAVEMENT MARKINGS

TYPICAL TURN BAY PAVEMENT MARKINGS



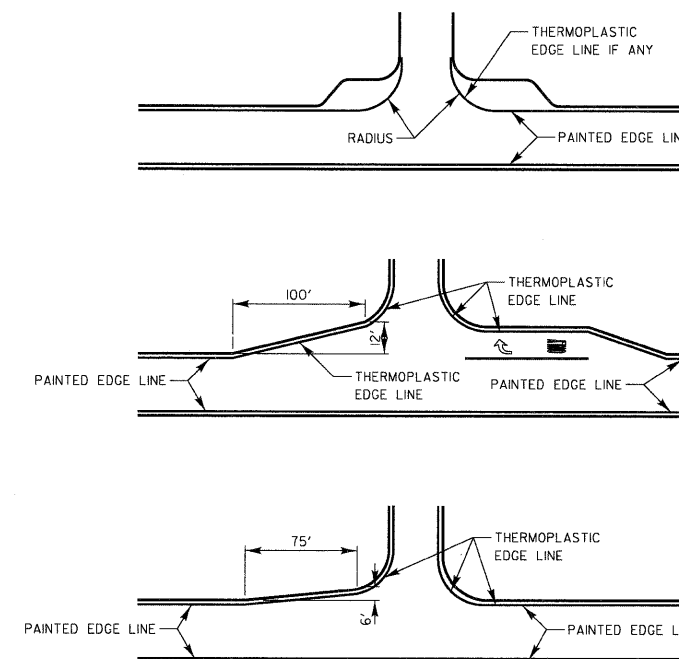
* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

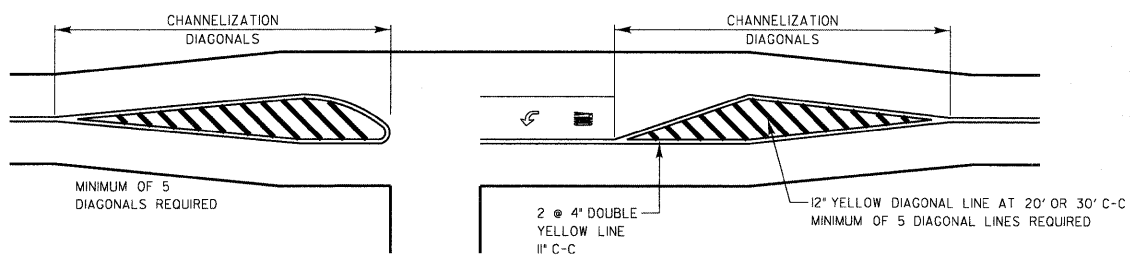
AREA = 20.8 SQ. FT.

FULL SIZE LETTERS (8") AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ 'ONLY' INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ 'ONLY'.

EDGE LINE RADII AT SIDE STREETS



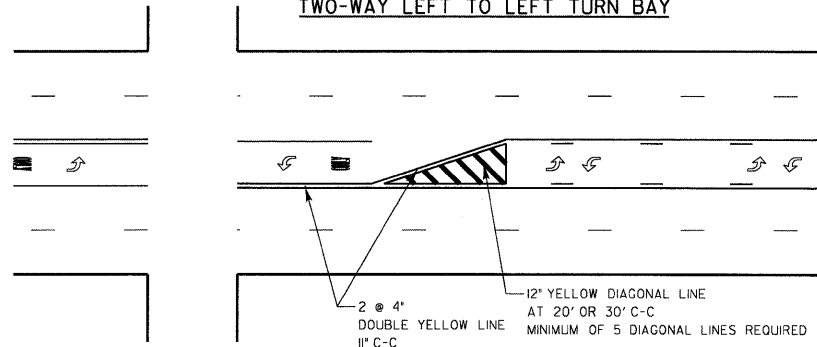
TWO LANE ROAD



TYPICAL DIAGONAL SPACING

SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

TWO-WAY LEFT TO LEFT TURN BAY



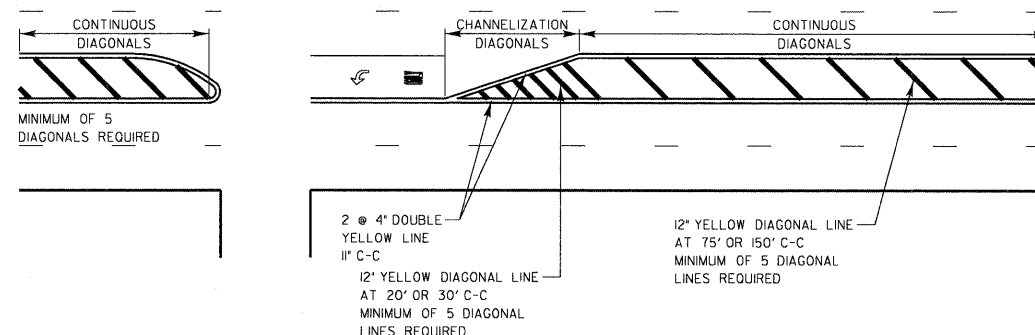
DUAL LEFT TURN ARROWS



3 1/2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

3 TO 5 LANE ROAD



REVISIONS	DATE
Separated Railroad Sheet	06/02/08

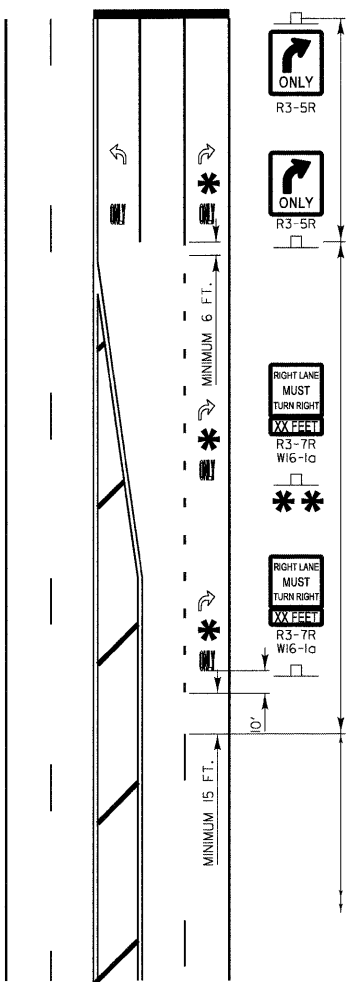


APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 1 OF 2

LC7800

THRU LANE TO
TURN LANE CONVERSION

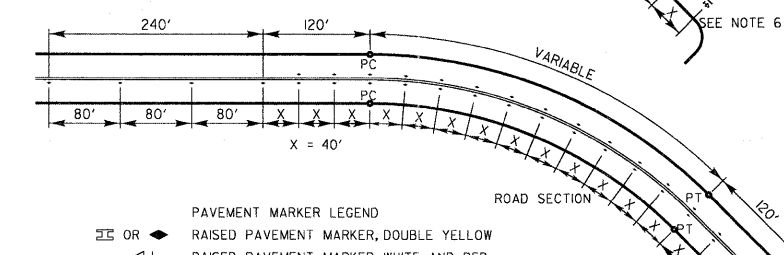
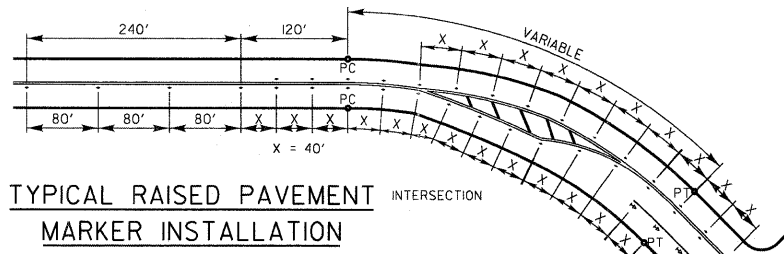


TURN BAY
6' WHITE LINE
(ADDITIONAL PAV'T MARKINGS AS SHOWN
ON SHEET ONE OF THE L.C.D.O.T PAV'T
MARKINGS DETAIL SHEETS)

TRANSITION ZONE
6' WHITE 3'/12' SKIP DASH
LANE LINE

THRU LANE
4' WHITE 10'/30' SKIP DASH
LANE LINE

TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS



PAVEMENT MARKER LEGEND

 RAISED PAVEMENT MARKER, DOUBLE YELLOW
 RAISED PAVEMENT MARKER, WHITE AND RED

- NOTES:
- CENTERLINE RAISED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL CURVES OVER 3 1/2 DEGREES ON ALL TWO AND THREE LANE HIGHWAYS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - SPACING = 40' FOR CENTERLINE MARKERS.
 - ALL RPM'S ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
 - MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.H.W.A. MEMORANDUM HO-21.
 - MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
 - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
 - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
 - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM'S SHALL BE INSTALLED IN PAIRS AND SHALL BE 80' CENTER TO CENTER. SPACING WITHIN EACH PAIR SHALL BE 10', CENTERED WITHIN THE 30' SKIP.

MINIMUM TRANSITION ZONE LENGTH

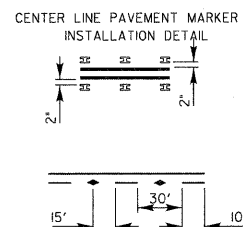
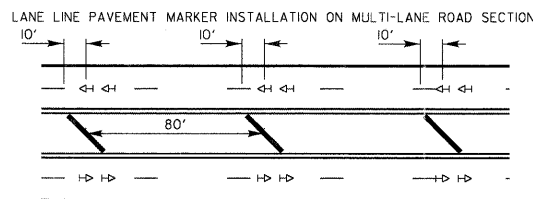
POSTED SPEED	LENGTH
25 M.P.H.	255 FT.
30 M.P.H.	330 FT.
35 M.P.H.	405 FT.
40 M.P.H.	480 FT.
45 M.P.H.	555 FT.
50 M.P.H.	630 FT.
55 M.P.H.	705 FT.

* LOCATION OF PAV'T MARKINGS

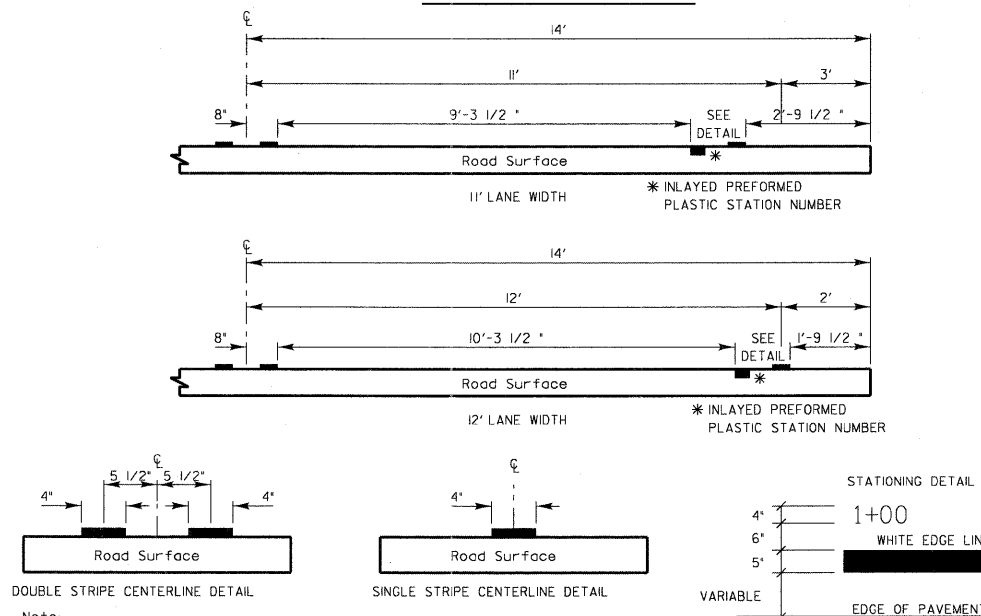
(MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT., 260 FT.
30 M.P.H.	10 FT., 170 FT., 340 FT.
35 M.P.H.	10 FT., 210 FT., 410 FT.
40 M.P.H.	10 FT., 170 FT., 330 FT., 490 FT.
45 M.P.H.	10 FT., 190 FT., 370 FT., 560 FT.
50 M.P.H.	10 FT., 170 FT., 330 FT., 490 FT., 640 FT.
55 M.P.H.	10 FT., 180 FT., 350 FT., 520 FT., 710 FT.

FOR POSTED SPEEDS 40 M.P.H. OR GREATER A SECOND R3-7/W16-1a SIGN INSTALLATION SHALL BE LOCATED HALFWAY BETWEEN THE BEGINNING OF THE TRANSITION ZONE AND THE BEGINNING OF THE TURN LANE

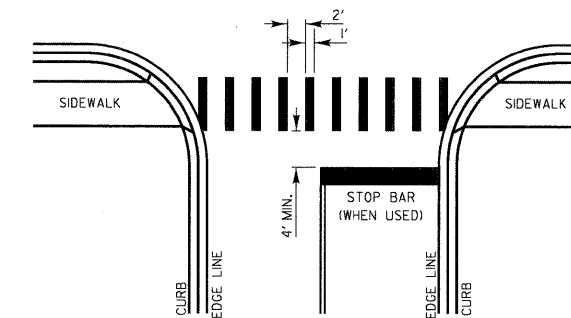


PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS
(2-LANE ROADWAY)



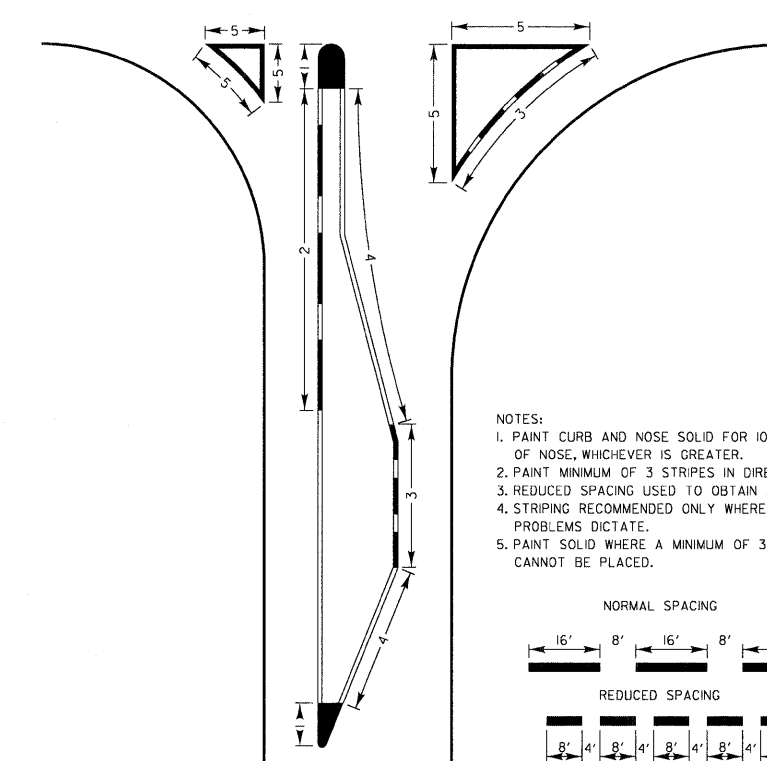
Note:
Centerline markings are 4' lines at 11' centers.

CROSSWALKS



- WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8'.
- THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING



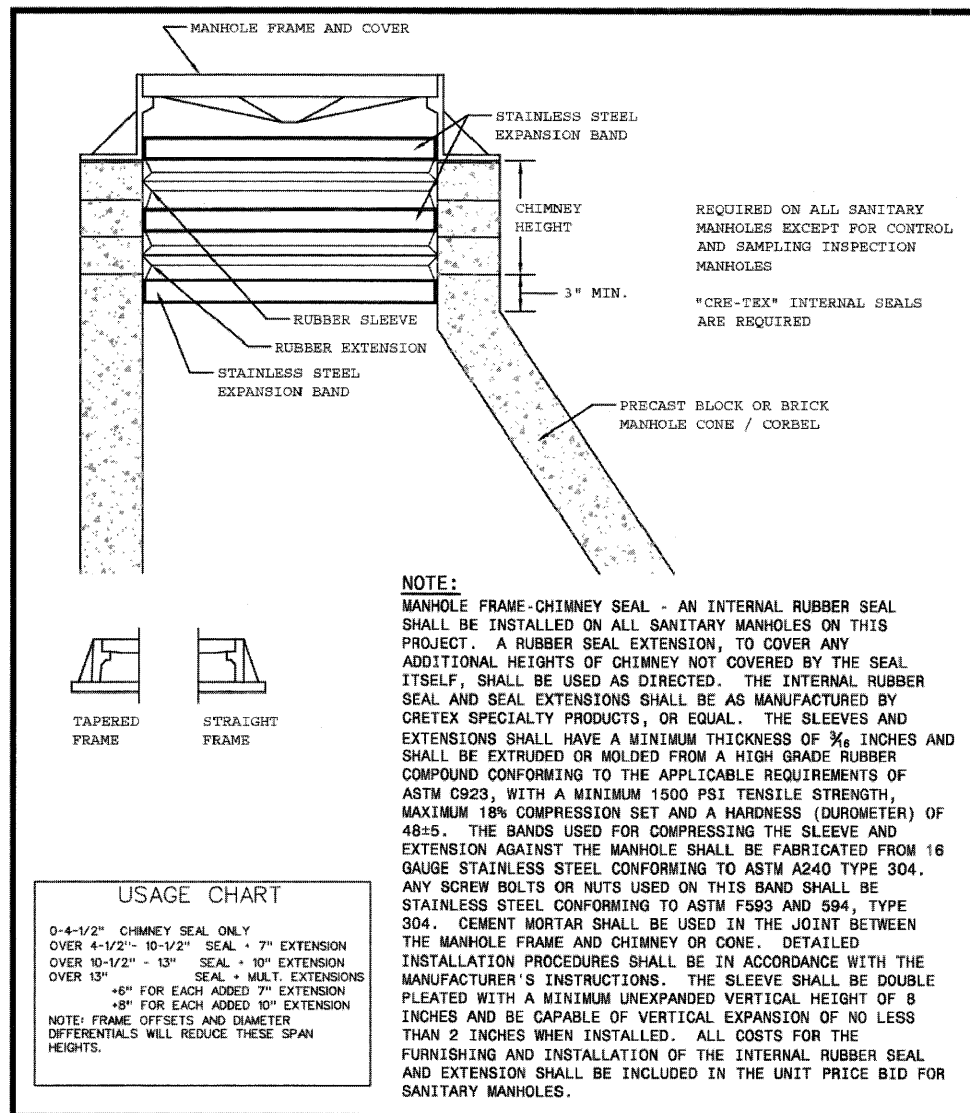
- NOTES:
- PAINTE CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
 - PAINTE MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
 - REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
 - STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
 - PAINTE SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES; FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN. 2 @ 4 IN.	SOLID SOLID	YELLOW YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE 11 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTERLINE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS 18 FT.	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW 11.5 SQ. FT. ONLY 20.8 SQ. FT. COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
CROSSWALK	8 FT. LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
STOP BARS	12 IN. @ 90'	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
PAINTED MEDIANS	2 @ 4 IN. WITH 11 IN. DIAGONALS @ 45' NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW - 2-WAY TRAFFIC WHITE - 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45'	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
P.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR 'X'	SOLID	WHITE	SEE I.D.O.T. STD. 780001 SQ. FT. AREA OF: 'R' - 36 SQ. FT. / 'R' 'X' - 540 SQ. FT.
SHOULDER DIAGONALS	12 IN. @ 45'	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III 'MARKINGS' IN THE 'ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', THE 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' AND I.D.O.T. HIGHWAY STANDARD 780001 EFFECTIVE JAN. 9, 1998.

REVISIONS	DATE	APPROVED BY: A. KHAWAJA	
Separated Railroad Sheet	06/02/08	DATE: APRIL 1, 2007	
		<p>TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS</p> <p>SHEET 2 OF 2</p>	

LC7800

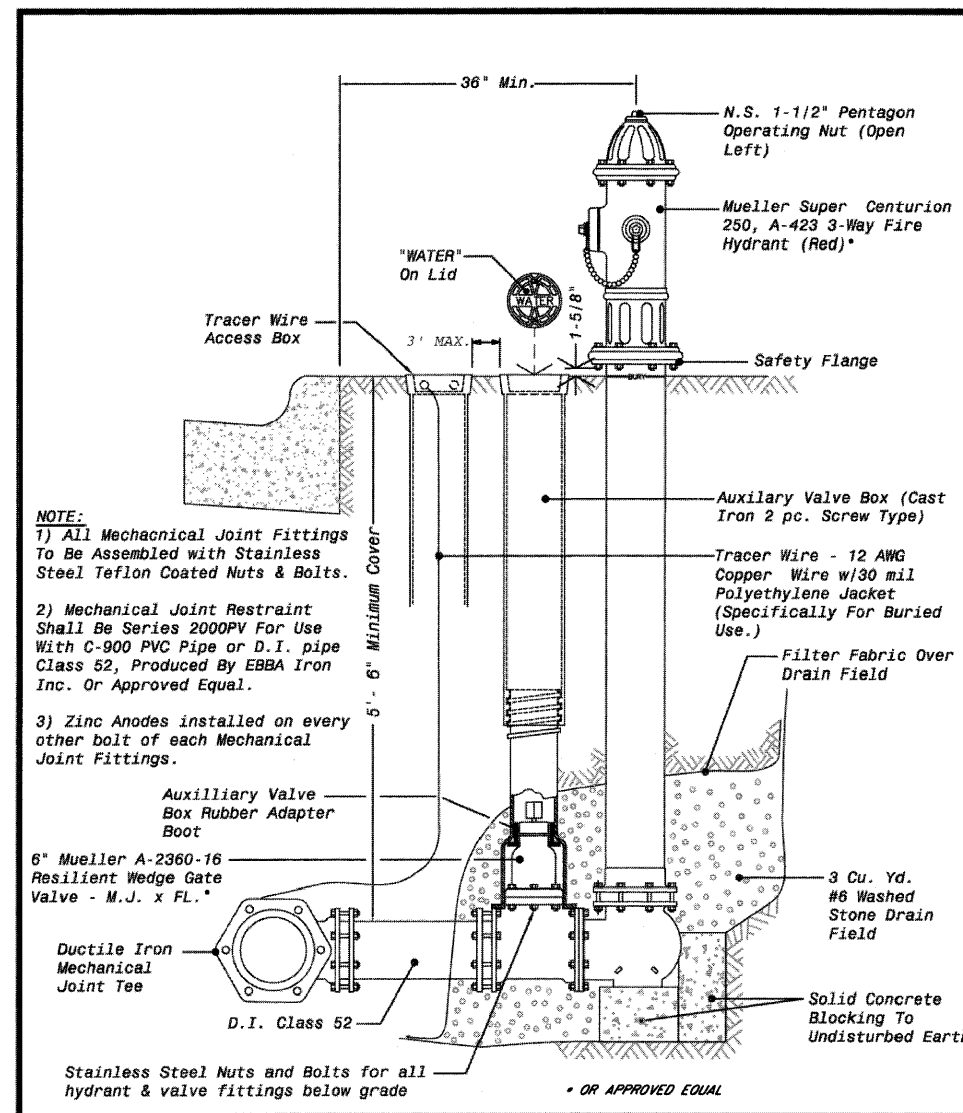


VILLAGE OF MUNDELEIN
ENGINEERING DETAILS

REV.	BY	DATE	REVISIONS
1.	MJ	04-04-05	APPROVED
2.			
3.			

SANITARY SEWER
INTERNAL CHIMNEY
SEAL DETAIL

DETAIL NO.
SAN-5



VILLAGE OF MUNDELEIN
ENGINEERING DETAILS

REV.	BY	DATE	REVISIONS
1.	MJ	04-04-05	APPROVED
2.			
3.			

TYPICAL FIRE HYDRANT

DETAIL NO.
W-1